

T H E U M D

August 1, 1986

Duluth, Minnesota

Volume 57

Number 1

Statesman

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Arts & Entertainment _____ 1C
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Would you send your kid here?



Welcome to the University of Minnesota, Duluth. Nestled high above the beautiful shores of Lake Superior, the UMD campus is a vast open land with eye-appealing beauty from the air. The city of Duluth plays host to this world-recognized institution, which each year produces award winning faculty and high achieving students. Together with its twin city, Superior, WI, the Twin Ports provide a

cultural experience that is unmatched anywhere in this country. Each year millions of dollars are exchanged with the University and the business community in both Duluth and Superior. Enjoy each day that you are in our fine region and don't ever lose perspective on why you are here. Achieve the dreams of your life while you are here and don't ever look back!!

Inside A

Capturing the beauty of the UMD campus in picture form is not an easy task. However, STATESMAN Photo Editor Curt Carlson has found some interesting angles in his two-page photoessay of your new home--the University of Minnesota-Duluth. See photospread pages 4A-5A.

Inside B

Academic life at UMD can be as interesting as you make it. Every program from business to political science to dental hygiene is covered in this section. Take your time browsing through what we call the On Campus section.



Inside C

College life will be the best time of your life. Really! And Kirby Student Center will most likely be where many of those 'best times' will take place. Familiarize yourself with KSC and utilize the available opportunities.



UMD--A first rate choice

Greetings to the UMD Class of 1990:

Welcome to the University of Minnesota, Duluth, and best wishes on the start of your college career. The faculty, staff and administrators are dedicated to providing you with the opportunity for a quality education.

UMD as a full-fledged comprehensive university is a collection of separate and autonomous colleges and schools, each with a mission to teaching, research and service. One of the five campuses of the University of Minnesota, UMD is a university in the finest sense of the word. The degree or diploma you will receive at graduation will be from the University of Minnesota and will be the same as those conferred on each of the University's campuses. In academic circles it is said that

the quality of a university is first determined by the quality of its faculty. UMD is proud of its 526 highly competent professors and



scholars, many of whom are nationally and internationally noted. The faculty, together with a helpful and knowledgeable staff,

will assist you in innumerable ways to make your college career successful and enjoyable.

Curriculum and programs are the second important component of quality education. UMD offers 13 baccalaureate degrees in 72 distinct study fields. There are 42 academic departments and faculties to support these programs. The curriculum is varied and challenging. The programmatic opportunities are so diverse that you should have little problem finding a suitable major or degree program.

Facilities are also very important. UMD has an outstanding campus with excellent buildings located in a beautiful north country setting. The 247 acre campus has 32 interconnected buildings supported with millions of dollars of equipment and a fine library.

You, the students, are the center

of this university's existence. UMD's diverse student body is one of high ability and high expectations. The student body is made up mainly of undergraduate students, but also includes graduate students, medical school students and special workshop students. UMD's students come from all over the State of Minnesota, from many other states and from 36 foreign countries.

I am pleased that you have decided to be part of the UMD tradition. My colleagues on the faculty and staff and I are most sincere in wishing you a successful and happy college career.

Sincerely,

Robert L. Heller

Robert L. Heller
Chancellor

STATESMAN unveils new look

With this special Orientation issue begins a brand new UMD STATESMAN! We're very excited to unveil our new look beginning with this issue. Although many of you are not aware of it simply because you have never seen the STATESMAN before, the look of the entire paper has changed. We hope you enjoy the new look.

The STATESMAN is the official newspaper of UMD. It is published every Thursday and distributed free throughout the campus. You can usually expect to have the STATESMAN in your hands by 1 p.m. Thursday. The STATESMAN does not publish during final exam weeks or during breaks.

Would you like to work for the STATESMAN? Our core staff consists of 32 editors and production personnel. Although those positions are currently filled, watch the STATESMAN during the school year for openings. The STATESMAN always has room for staff writers. Stop by our office in Kirby Student Center and pick up an application. Not only will having published stories in the STATESMAN be helpful to show a possible employer some day, but you can also make some extra money. Whether you're interested in news, sports, outdoors, or arts and entertainment, the STATESMAN has a place for you.

Beginning fall quarter the STATESMAN will unveil a brand new section entitled, Business. Every other week the STATESMAN will bring you up-to-date on what college students need to know to stay on top of the business world. Things such as how to get a loan to smart grocery shopping to how to buy a VCR will all be covered. We think you'll enjoy it.

Watch for and contribute to STATESMAN FOOD DRIVE'S I, II, and III during fall, winter, and spring quarters. With your help we can keep the Duluth Food Shelf full. Also keep an eye out for the second annual STATESMAN Pumpkin Carving contest. The STATESMAN is also

planning a Christmas medallion hunting contest with a different clue in the paper each of the three weeks leading up to Christmas break.

All this and more coming to you from the STATESMAN in 1986-87. If you have a story idea or would just like to see what goes on at the STATESMAN, please stop by. We'd love to see you.

We're looking forward to a great year in 1986-87 at the STATESMAN. We hope you enjoy this issue and welcome to UMD - your campus!!

the
UMD

Library & Learning Resources Center CONTENTS

I. HOURS

Library	Learning Resources Center
Monday-Thursday	Monday-Thursday
Friday	Friday

7:45 a.m. - 11:00 p.m. 7:45 a.m. - 8:00 p.m.
7:45 a.m. - 5:00 p.m. 7:45 a.m. - 5:00 p.m.

Weekend hours will be posted at the beginning of the academic year.

II. TELEPHONE NUMBERS

General Information	726-8102
Reference Service	726-8100
AV Learning Resources	726-6121
AV Equipment Checkout	726-7223

III. LIBRARY COLLECTIONS

Archives
Children's Literature Research Collection
Government Documents
Health Science Library
Learning Resources Center (audiovisual materials)
Northeast Minnesota Historical Center
Teaching Materials Collection
Voyageur Collection

IV. SERVICES

AV Equipment Loan
Library Computer Center
MINITEX/Inter-Library Loan
Online Bibliography Searches
Photocopy Machines
Tours of the Library

V. CLASS FOR CREDIT

Course Title: Introduction to Library Research
Staff: UMD Library's Reference Staff
No. Credits: 2
Course Number: EN 1593 Special Topics

THE UMD Statesman

The UMD STATESMAN is the official newspaper of the University of Minnesota-Duluth and is published by the UMD Board of Publications each Thursday of the academic year except holidays and exam weeks.

Opinions expressed in the STATESMAN are not necessarily those of the student body, faculty or the University of Minnesota.

Letters to the editor and guest essays provide a forum for readers. Letters must be typed, double-spaced and be signed with the author's name, year in school, major and phone number for verification purposes. Non-students should include other identifying information, such as occupation or residency. Anonymous and form letters will not be published. Letters must not exceed 300 words and must be received no later than Monday at 4 p.m. for Thursday publication. The STATESMAN reserves the right to edit obscene and potentially libelous material. All letters become the property of the STATESMAN and will not be returned.

Advertising inquiries should be directed to Thomas Foley, Advertising Manager, at 218-726-8154. The editorial phone is 218-726-7113. A subscription is \$3.50 per quarter and mailed upon request. Second class postage is paid at Duluth, Minnesota.

Offices are located at 118 Kirby Student Center, UMD, Duluth, Minnesota 55812.

The UMD STATESMAN is a member of the Associated College Press and the Columbia Scholastic Press Association.

The UMD STATESMAN and the University of Minnesota are equal opportunity and affirmative action employers and educators.

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Editorial

Integrity and pride remain strong

Duluth/Superior: the Twin Ports cities of the northern United States. This is the place where you have decided to further your education and mold yourself into a productive citizen.

What a choice you have made. It is described at both ends of the spectrum as the "ice box" just south of the Canadian border in the winter, and as "paradise" for a good majority of the summer.

No matter what the weather though, it's the people that make any city or region great. If there is a better mix of hard-working, honest people anywhere in the country, a stiff argument would be raised by many who inhabit this great region

year round.

The troublesome times of economic depression and unemployment have not evaded the Twin Ports. Through it all the integrity and pride of the people



Jerome Paul Guidinger

who were able to weather the storm and remain in the region has grown stronger.

The University of Minnesota, Duluth provides a strong economic and employment base for the Twin Ports. Millions of

dollars are exchanged annually with the local business community and the people of the University system. The influx of new students each fall brings a smile to the faces of many establishment owners who so strongly need the economic base that the masses provide.

A variety of many cultural experiences await the eager and adventurous who make the downtown district an active part of their Duluth experience. Don't just sit up here on the hill, go downtown and, yes, even over the Blatnik Bridge to that wonderful Wisconsin city, Superior. A little bird once said that the people from over the Wisconsin way may even

be as proud of their great state. I, for one, would be first in line NOT to argue that!

Whichever side of the bridge you decide to patronize you can not do harm. Both cities provide adequate enough reasons to make them your home.

In the final analysis, if you ever decide that Duluth/Superior is not suited to your lifestyle or college needs, all that can be said is "Thanks for trying it," and on behalf of the people of this region you are certainly more than welcome to come back again anytime.

Guidinger is Editor-in-Chief of the UMD STATESMAN and a senior from Milwaukee, WI.

Letters to the Editor

Letters to the editor and guest essays provide a forum for readers. Letters must be typed, double-spaced and be signed with the author's name, year in school, major and phone number for verification purposes. Non-students should include other identifying information, such as occupation or residency. Anonymous and form letters will not be published. Letters must not exceed 300 words and must be received no later than Monday at 4 p.m. for Thursday publication. The STATESMAN reserves the right to edit obscene and potentially libelous material. All letters become the property of the STATESMAN and will not be returned.

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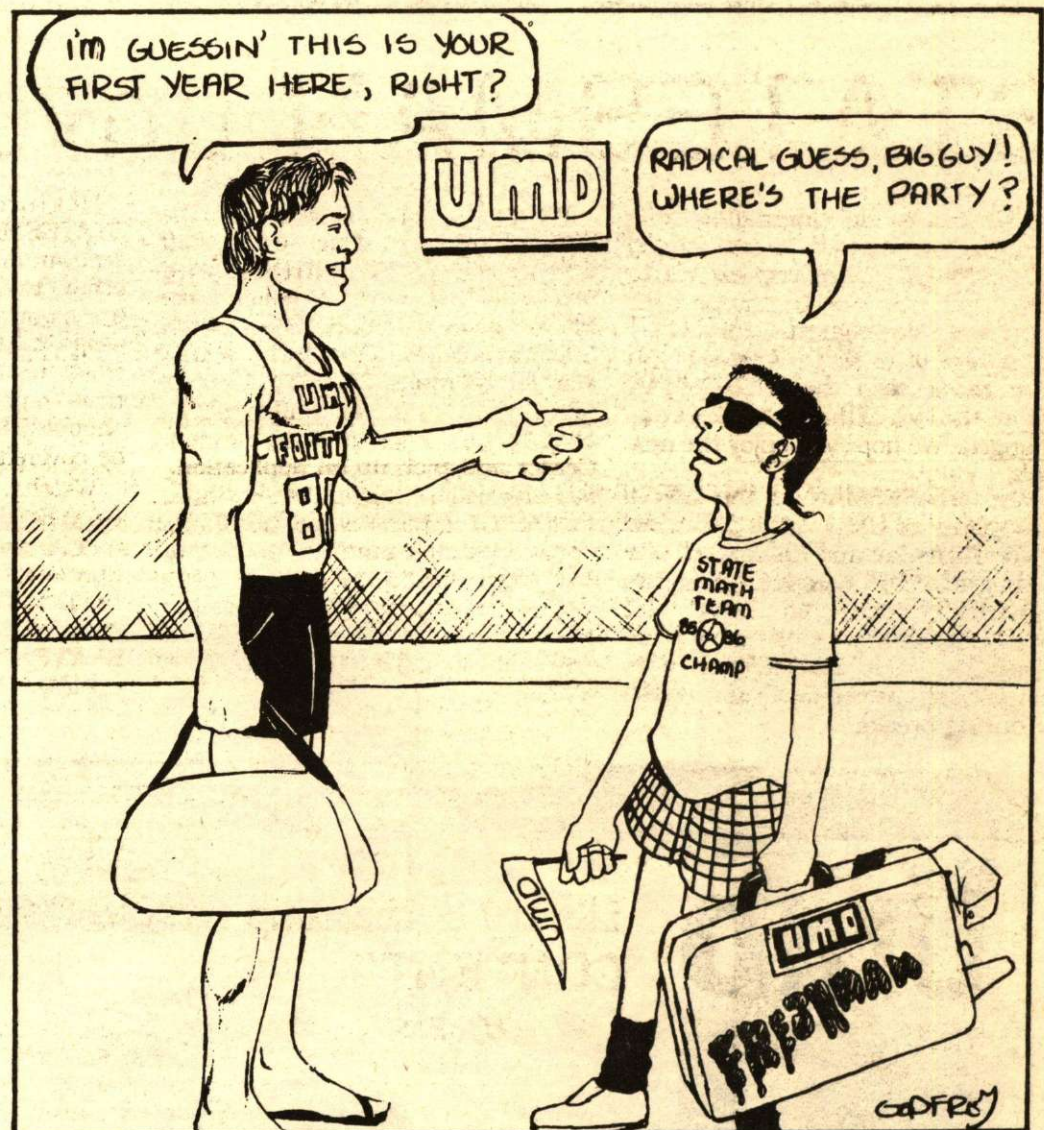
The UMD STATESMAN is a member of the Associated College Press and the Columbia Scholastic Press Association.

If you have a question regarding letters to the editor, please feel free to call the STATESMAN at (218-726-7113), or stop by the office.

Offices are located at 118 Kirby Student Center, UMD, Duluth, Minnesota 55812.

VOICE YOUR OPINION !

Interested in voicing your opinion? Apply to become an opinion writer. Applications are available in the STATESMAN office in 118 Kirby Student Center.



A solid foundation is the key to success

Beginning your college career here at the University of Minnesota-Duluth is an anxious time for some new students. The time to be more responsible and dedicated to higher achievement in the classroom is now before you.

Parental encouragement for some is at an all time high and the pressure to do well is more prevalent than ever before.

If you can take a moment to step back and put it all into perspective, you will realize that just by setting foot in the doorways to this University you have already accomplished a great deal more than many others. The follow-up task now before you is to make

your time here the most productive and beneficial to you that it can be!

Now is the time to take chances and test your limits of creativity.

J.P. Guidinger

Don't hesitate if you would like to take a class that you know will be difficult. Chances are good that if you approach the challenge with a positive outlook you will be successful. Test your abilities and don't ever look back.

If the chance to join a student organization or a fraternity/sorority arises don't hesitate, any of the organizations always welcome new people. The

activities and groups here at UMD are for YOU!

Year after year people complain about not enough to do. The problem, however, is that most times NOT ENOUGH PEOPLE are involved in an activity. In order for any event or program to be successful it needs people who want to participate. Whether it's Homecoming, Winter Carnival, or Health Awareness Week, what is most needed by these events is YOUR PARTICIPATION!

Take a chance and join an organization. Who knows, you may even build friendships that will last a lifetime.

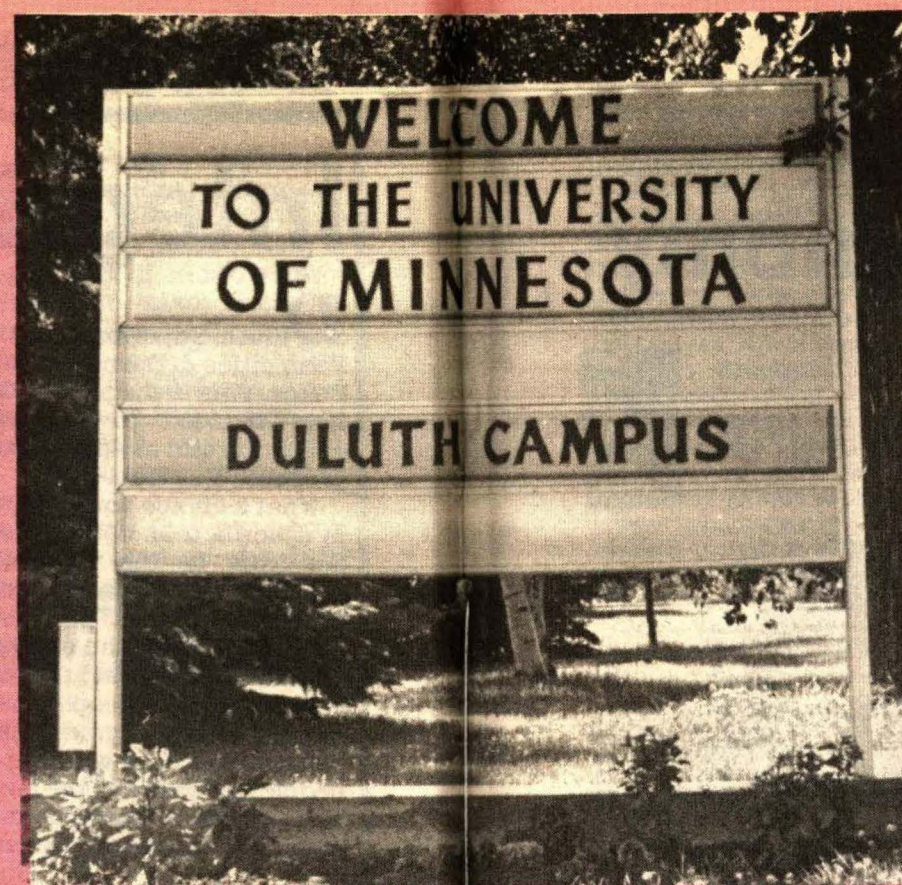
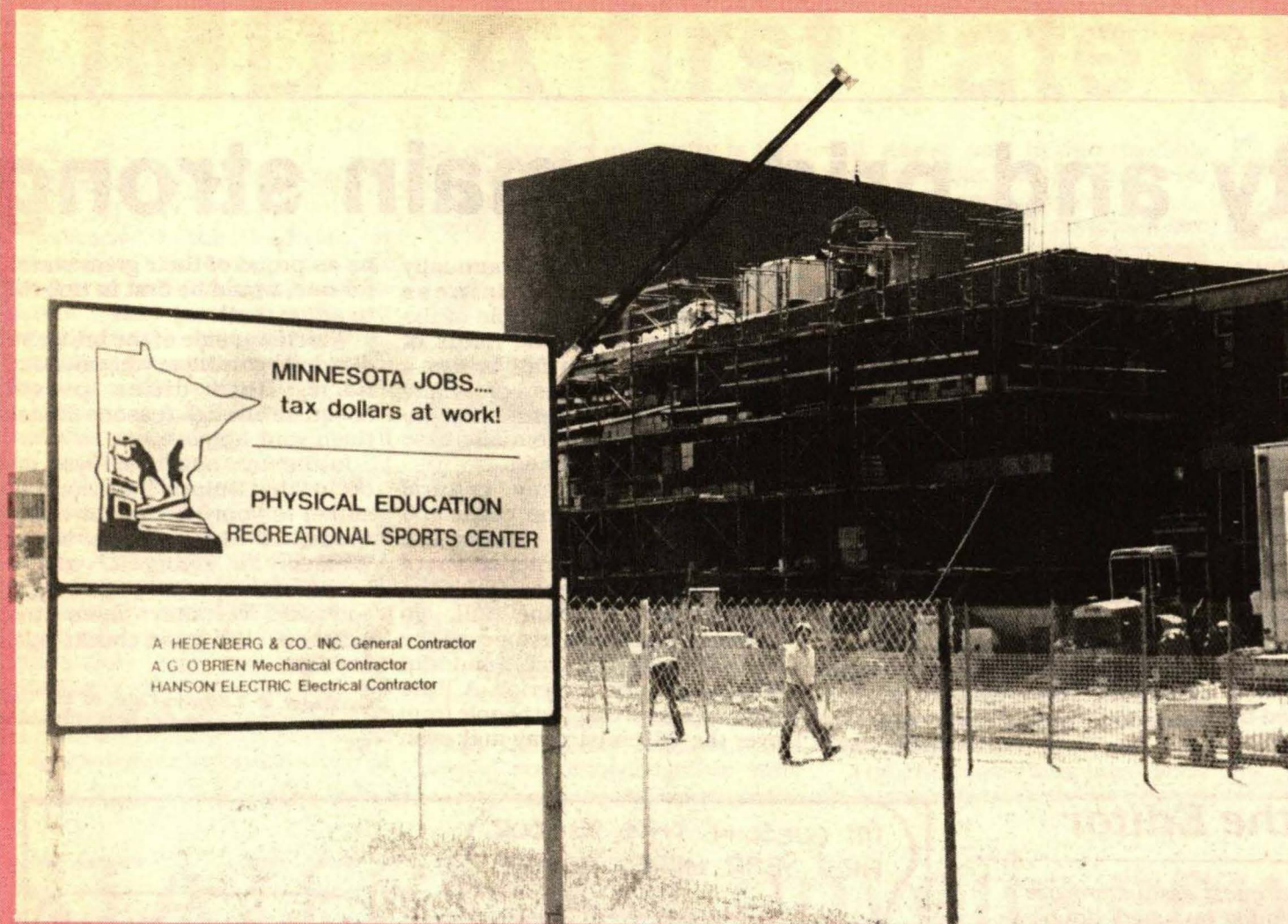
Make your college time here in Duluth an experience that you will look back on and remember with

both fond and proud memories.

Each of us here at UMD has the chance to excel in whatever we choose to do. The opportunities that await you may never come again. It has been said thousands of times before but it carries a special truth; DON'T WASTE THE OPPORTUNITIES, TAKE ADVANTAGE OF THEM TO BETTER YOURSELF.

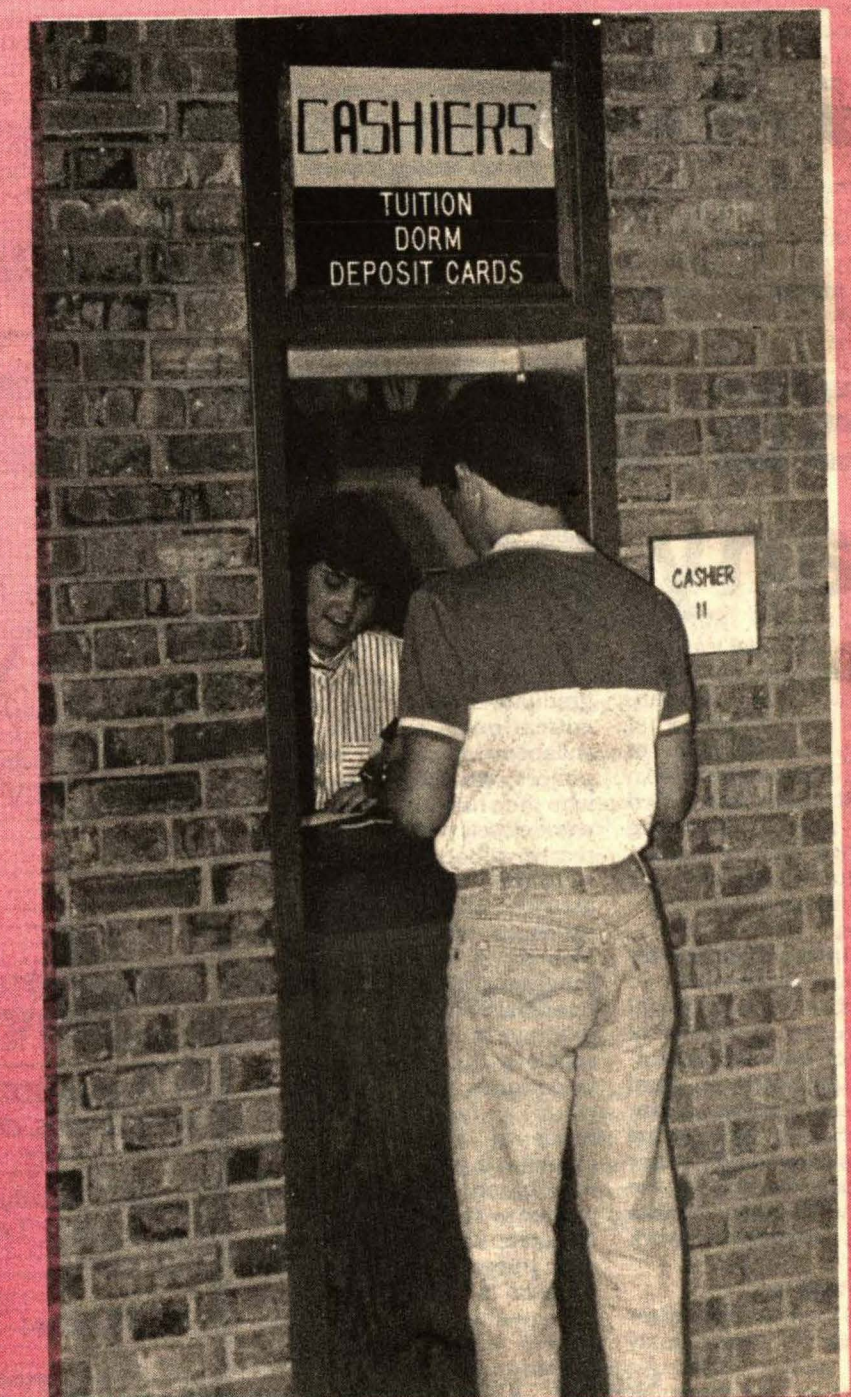
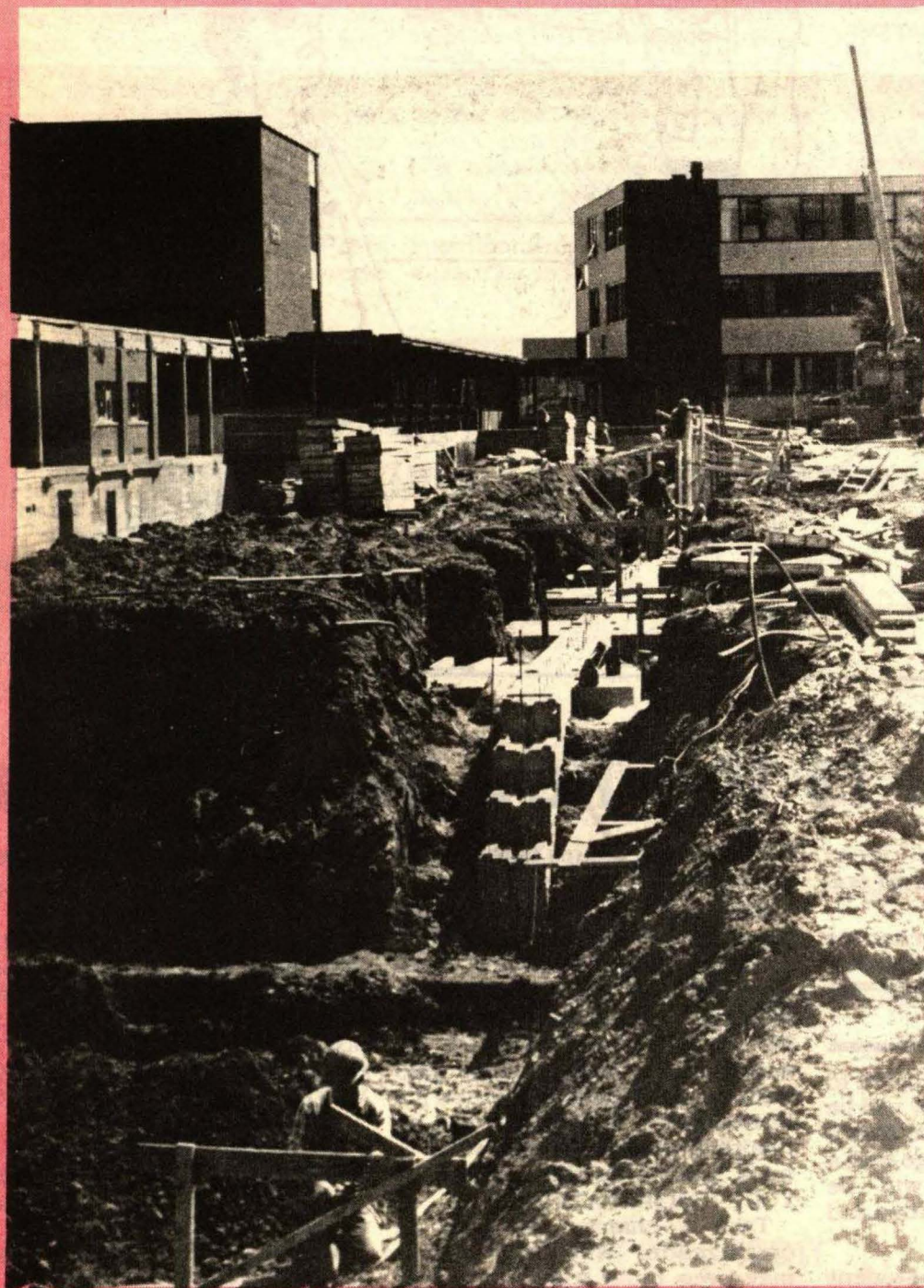
The vacation of your life will be over in four short years or so when you graduate. Enjoy these next years and build yourself a foundation that will enable you to stand firmly on your own!

Guidinger is Editor-in-Chief of the UMD STATESMAN and a senior from Milwaukee, WI.



Clockwise starting from top left: 1) Looks are deceiving--although the Physical Education Recreational Sports Center is currently under massive construction, the building you see behind the sign is not. That's the new Engineering

Building that is scheduled to be open fall quarter. 2) This is the front of the "new" Physical Education Building. 3) The Darland Administration Building. 4) UMD student Tom Imhof is seen at a place on campus that always seems to deplete one's pocketbook. 5) Mary Rose checks out a book from the library. Notice the microcomputer center in the background. 6) Colleen Huntley services one of her many customers throughout a normal day. Kirby Desk is the place to go for just about anything.



Photos/Curt Carlson

Business

Tourism program helps state's economy

Students Play a Large Role in University Tourism Center

At any one time, up to 15 students are involved in the work of the Tourism Management & Development Center (TM&DC), one of the special programs sponsored by the School of Business and Economics (SBE) and aimed at developing the economy of Minnesota by working with small businesses. Some of the students have scholarship/ internships, some are on work-study, and others have special appointments.

The primary aim of the Center has been outreach services and applied research. According to David Vose, SBE dean, the school is now looking seriously at the development of a recreation/tourism-related area of concentration for the Bachelor of Business Administration degree. If it does come into being, it will be the only baccalaureate program in the state with that emphasis, he pointed out.

The director of the Center is Thomas J. Wood. "One of the things that makes us different from other tourism groups is the student involvement," Wood said. Ten students work as interns and assist with the research, workshops, publications and office administration.

The Center's research focuses on specific target audiences, for example: campers, skiers, anglers, retirees, international visitors, and special populations. Projects range from visitor characteristic surveys, to tourism marketing assess-

ments, industry operation analyses, and economic impact studies.

Student interns, SBE faculty and Center staff produce the research together. Students learn skills in designing survey tools, conducting interviews, putting data on a computer, and analyzing data.

Students work on the Center's publications, which are a part of its outreach effort to the area, and gain practical experience in journalism, public relations and computer use. A newsletter entitled *Northland Marketplace* contains facts concerning the tourism industry's news and developments, and is distributed to the people who provide services to tourists, like attraction managers, and association of motels and resorts.

A second publication, the *Northland Trekker*, is an experimental travel magazine whose goal is to demonstrate the potential in engendering group travel to Northern Minnesota. There are 3,500 groups, including 800 Minnesota senior citizen organizations, 400 community education tour planners, and Midwest travel writers who receive the *Northland Trekker*.

In order to be active in the management of a tourism-related business, some of the Center's students work at Indian Point Campground, a city-owned facility located near the Lake Superior Zoological Gardens and the Western Waterfront Trail. The students manage the campground, groom the grounds, interact



Student intern Deb Kohlase (seated) from Warren, MN., has worked for two years on the *Northland Trekker*, a publication produced by the Tourism Management & Development Center at UMD. Beside Kohlase is Jane Seybolt, tourism publications editor.

with the visitors and conduct research surveys.

Part of the Center's program is comprised of the giving of technical advice to people with tourism-related concerns. For example, Center staff gave a workshop to Duluth Parks & Recreation on the use of the media in marketing attractions and events. Student interns help to prepare the materials for these workshops and sometimes also make

presentations.

At present the TM&DC has available \$1,000 scholarship/ internships for 10 UMD undergraduate students for the 1986-87 academic year. To be eligible students need to have graduated from a high school in a Bremer First American Bank community in Minnesota, North Dakota or Wisconsin. (Contact the Center for a list of these communities.)

Recipients work as interns

with cooperating faculty and staff of the Center for 10 to 15 hours per week in one of the areas mentioned above. Applications may be obtained from the Center during the summer: Tourism Management & Development Center, 116 SBE, University of Minnesota, Duluth, 10 University Drive, Duluth, MN 55812, (218)726-8542.

SBE offers many paths

A number of special learning opportunities are available to students admitted to candidacy for the Bachelor of Accounting and Bachelor of Business Administration Degrees. Students interested in these special learning opportunities should contact their faculty advisor for additional information.

Internships

Internship experiences offer students an opportunity to apply their educational training to real problems of management and administration through work in local business and other organizations. Some internships offer a salary and other compensation as well as the opportunity to earn credits through a supervised work experience.

Research Projects

Students have the opportunity to develop and apply research skills through participation in research projects with faculty members in the School of Business and

Economics (SBE). This opportunity provides undergraduate students the unique educational experience of collaborating on a research project with a faculty member who then has an opportunity to work closely with students and receive valuable assistance on a research or professional activity. The university also sponsors the Undergraduate Research Opportunities Program (UROP) which offers financial awards to undergraduate students for research, scholarly, or creative projects undertaken in partnership with a faculty member. Students apply for UROP awards by submitting a description of the research project they propose to complete. Student applications are judged and financial support is granted based on the quality of the proposed project and its educational benefit to the student.

Business to 7A



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Business from 6A

Management Field Studies

The Small Business Institute Program, sponsored jointly by SBE and the Small Business Administration, offers opportunities for students to become involved in applying their educational experience to the daily problems of small businesses. Each quarter a number of teams of students work directly with a business enterprise on managerial problems. Enrollment in the Management Field Studies course provides such an opportunity for undergraduate students to gain practical experience as well as earning credits which can be applied towards their degree.

Volunteer Income Tax**Assistance Program (VITA)**

The VITA program is designed to offer free income tax help to people who cannot

afford professional assistance. Accounting students interested in this program enroll in the one-credit VITA course. After 35 hours of instruction, students assist taxpayers with simple tax returns at various locations throughout Duluth.

The emphasis of the program is on educating taxpayers to complete their own tax returns. Students gain valuable experience in learning how to communicate to others what they have learned.

Tutoring

Bachelor of Accounting and Bachelor of Business Administration students interested in helping other students in accounting, finance, management science, and management information systems may do so and earn credit. The tutoring program offers students an opportunity to apply their knowledge and skills in helping other students.

Financial Aid--a shiny silver dollar

The World According to Financial Aids

Where do I go concerning financial aid questions?

All questions may be directed to the Information Desk on the first floor of the Darland Administration Building. You may then be referred to the Counselor of the Day or a Financial Aid Officer, 139 Darland Administration Building depending on your question or concern.

Where do I turn in my financial aid forms? Where do I obtain financial aid forms?

Again, the Information Desk, first floor of the Darland Administration Building, is the spot to receive and turn in all financial aid forms.

Where is the Office of Student Financial Aid?

Believe it or not, there is no specific Office of Student Financial Aid. As we said before, all paperwork and questions are handled by the Darland Administration Building Information Desk. All paperwork is processed at another location on first floor. If you need to make an appointment with a Financial Aid Officer or see the Counselor of the Day, this may be done in 139 Darland Administration Building.

Where do I get my financial aid check each quarter? What do I need to obtain my check? Of course, this is only if I am eligible.

Checks are disbursed

beginning the first day of each quarter. Checks are usually disbursed from the Kirby Student Center Rafters the first two weeks. After that Window 7, first floor of the Darland Administration Building will help you. You receive a voucher which you take to the Cashier's Office, first floor of the Darland Administration Building. You must present your UMD student ID card, driver's license, and your fee statements.

I will not need my financial aid check until the end of the quarter. Can't the Office of Student Financial Aid just hold it for me?

NO. NO. NO. Financial aid checks are only held for 30 days after the date they are issued.

I have not applied for financial aid yet this year. May I still apply?

YES! Although the priority deadline for 1986-87 financial aid was April 23, you may still apply for financial aid. The Family Financial Statement (FFS) must be completed for ANY financial aid at UMD, INCLUDING ALL TYPES OF STUDENT LOANS.

I thought my application for financial aid was complete, yet the Office of Student Financial Aid still requests different forms from me. Why?

Often times the Office of Student Financial Aid needs to verify information that you have submitted to them. Because of rather strict federal

regulations, additional information is requested of you. Please turn this information in at the Darland Administration Building Information Desk as soon as you can. Do not ignore these requests.

If I want to cancel a class or all my classes during the quarter what do I do? Does anybody care?

If you are just cancelling a class or two, you would go through the normal cancel/add procedure at Window 7, first floor of the Darland Administration Building. If you are cancelling all your classes for the quarter, you need to contact the Counselor of the Day in 139 Darland Administration Building.

If you cancel classes and are less than full-time, your financial aid is affected. Any refund will be returned to the financial aid programs from which you received aid. If you cancel at 100 percent, you must repay all loans, grants, and scholarships issued to you for the cancelled quarter.

This all sounds like a lot to remember. Can you give me just one good bit of advice?

Remember just about everything you do at UMD has some effect on your financial aid situation. We suggest that you read and reread everything you receive regarding financial aid, especially the **Information Guide for Financial Aid Recipients**. There is a lot of good information in it.

Good luck! Have a great year!

CEE classes are an alternative

Undergraduate students may cross-register for Continuing Education and Extension (CEE) classes at UMD on a space-available basis. They may register for CEE courses at their regularly scheduled day registration time. No additional charges will be assessed for cross-registration.

For more information on cross-registration in CEE, call the CEE office at ext. 8113.

Student Association

STUDENT ASSOCIATION IS...

...the voice of the UMD students. The Student Association serves the student body and represents it on all levels of the university system. S.A. is comprised of an Executive Committee and a Congress (elected in the spring of each year) who work together on a wide variety of issues from student rights to all-university concerns. We invite you to come into the S.A. office anytime to voice a concern or just to offer your support.

LEGAL AID Free Legal Advice

During the school year, Student Association offers legal aid on a regular basis. Area attorneys come to campus to answer your legal questions free of charge. Watch for signs announcing dates and times.

BOOK EXCHANGE An Alternative to "the Bookman"

At the end of each quarter Student Association, along with another student organization, sponsors the "Book Exchange". The Book Exchange gives students an opportunity to sell books at the price they choose, and also buy books at a cheaper rate than what is offered at the bookstore.

STUDENT CONCERNS Gotta Gripe? Concerned? ...Let us Know...

One of the services that S.A. provides is the Student Concerns Center. If you have a concern, complaint, or suggestion about UMD or Student Association, write it down and drop it in the Concerns Center Box outside the S.A. office. Members of the Student Concerns Committee of Congress will do their best to research and answer your questions. Stop by and read other people's concerns too!

S.A. RECORDS Cheap Albums Right On Campus

Another service that Student Association has to offer is its discount Record Store which is owned and operated by students. S.A. Records has a wide variety of albums at the lowest mark-up possible. Any albums not in stock may be specially ordered at no extra charge. S.A. Records is located in Kirby Student Center.

Stop By

Now that you know a little more about us, we'd like to meet you. Stop by Student Association and introduce yourself. Our office is located in Kirby Student Center across from the information desk. If you have any questions or suggestions, please feel free to call us at 726-7178.

Student Government working for you

KIRBY STORES

Have It All

Orientation Specials

Second Edition

(Paperbacks, magazines, stamps)

10% off

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Bulldog Shop

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30% off

Champion inspiration sportswear

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20% off Backpacks

10% off Calculators

10% off Dorm Room Furnishings

Fisher Space Pen only 99¢

Come in and get a FREE UMD pen

All stores are located in the Kirby Student Center

All sales end 8-15-86 *Public is welcome

On Campus

B

The College of Liberal Arts

It goes on and on and on and on

The College of Liberal Arts is the UMD home of the humanities and the social sciences. Here you will find American Indian Studies, Anthropology, Archaeology, Criminology, English, Foreign Languages and Literatures, Geography, History, Humanities, Interdisciplinary Studies, Journalism, Linguistics, Philosophy, Political Science, Sociology, Urban and Regional Studies, Women's Studies, and the pre-professional programs of Journalism, Law and Theology. The Centers for Criminal Justice, Community and Regional Research, American Studies and International Studies also provide cooperative opportunities for students and faculty.

The CLA faculty is strongly committed to undergraduate education. We encourage our students to take advantage of a strong advisement system, to engage in activities which bring faculty and students together in a closer educational relationship (the Undergraduate Research Opportunities Program for example), and to participate in total campus activities which enrich your academic experience.

The CLA Student Affairs Office is here to serve you. Someone recently made the comment that "this college has a lot of heart." We hope so. Come in to Clna 109 and meet us.

Looking for a Minor in Humanities?

The Humanities Program offers an interdisciplinary course of study incorporating the materials and approaches of many intellectual and creative disciplines. Courses focus on the study of human values, concerns, and artistic expressions. Students learn to analyze a wide selection of historical and contemporary materials from the fine arts, literature, philosophy and history. The program offers a 30-credit minor.

Students pursue a minor in Humanities for many reasons. Some students seek the wisdom gained from a study of classic, historic sources. Others are developing their own philosophy of life by considering the views of thinkers and artists, past and present. Still others want a deeper understanding of their cultural traditions or of contemporary society. All are improving their verbal, intellectual, and imaginative skills. Students majoring in fields like history, English or philosophy find Humanities courses enhance their appreciation and understanding of their major field. Students majoring in business fields or the sciences find a Humanities minor culturally broadening and personally enriching.

Lower Division (6-15 credits). Any two of Introduction to Humanism: Hum 1001, 1002, 1003 (6 credits). Other 1000-level Humanities courses (0-9

credits).

Upper Division (15-24 credits). Interdisciplinary Methods Seminar: IS 3001 (3 credits). Other 3000-level or above Humanities courses (12-21 credits).

For further information, contact Dr. Fred E.H. Schroeder, Director, Humanities Program, 494 Humanities Building, University of Minnesota, Duluth (218) 726-8237.

The Department of Communication can be seen in many ways. The numbers tell us that there are 425 majors and pre-majors. The department has 12 full-time and adjunct faculty. We offer 40 courses in the areas of persuasion and rhetoric, organizational and business communication, interpersonal communication and telecommunication.

As a field of study, we seek a balanced perspective between theory and practice, with the idea that our graduates will not only know what to communicate but also how to communicate. All students who wish to become communication majors must first complete four basic or "core" courses before they can be admitted to the program. Those four courses are designed to give the student some background in and exposure to the four areas of the communication field that are taught in the department. After completing the preliminary courses, many of our majors will concentrate their upper level studies in the area that most interests them.

As a communication major, many occupations are open to the student upon graduation. A frequent question asked by prospective communication majors is: "What do I do with a communication degree?" Unlike some fields where the name of the field is synonymous with the occupation, a communication background offers students opportunities in the areas of sales, marketing, advertising and public relations, broadcasting and cable, human services and personnel, government and law and many others.

The courses likely to be of most interest to new students are the four basic courses mentioned previously. Those courses are Communication 1101-Contemporary Persuasion and Society, Communication 1111-Public Speaking, Communication 1202-Interpersonal Communication and Communication 1401-Telecommunication in America. Contemporary Persuasion and Society is a large lecture course that deals with the strategies used to persuade and inform in our society. Public Speaking is a small class which deals with the processes and performance of speaking in public. Interpersonal Communication is also a small class which deals with the roles communication plays in interpersonal relationships. Telecommunication in America is another large lecture course that deals with

the history and development of telecommunications institutions in our society and how those institutions affect society and us as individuals.

Interested students should feel free to visit the Department of Communication, located on the fourth floor of A.B. Anderson Hall, and talk to any of the faculty who may be available.

English

Our native language is not only the instrument of learning we acquire first as infants; it is also the one we depend upon most persistently to the very end of life to nourish our minds and enlarge our spirits. No matter how many other language or symbolic systems we may in time learn to use, the need for ever greater mastery of the mother tongue remains. As technology proliferates and the bounds of the physical universe itself seem to expand, it is our common language that we turn to and always shall when we wish to communicate to our fellow men and women whatever it is we know or fear or hope. For that reason, the refinement of reading and writing skills is basic to all the disciplines of study at UMD, as it must be at any reputable college or university.

Beyond the general composition requirement which all students meet and the nine courses in literature, linguistics, and journalism which they may elect within the Liberal Education Program, the English Department offers four lines of major and minor study (Literature, Writing, Linguistics and Journalism), each one leading to the B.A., the B.A.A., or the B.A.S. degree. Any of the four provides both structure and flexibility when the student sits down with a faculty advisor to shape his or her individual curriculum. Among the faculty of 18 are specialists in creative as well as general writing, in British and American literature of all periods and genres, in the structure of language and its place in society, and in reportage for the mass media.

The department encourages academic distinction by granting honors to those students whose grade point average in the major field is 3.40 or above (3.20 overall) and who have done an approved honors paper or creative writing or independent study project. In addition, the Slonim Scholarship, the Bardic Prize and the Wright Prize are awarded annually for academic achievement and meritorious expository or creative writing.

Students major in English for all the traditional reasons, but also for others that reflect a yet-to-be-articulated sense that human beings need above all else to know themselves in order to survive and, one may hope, thrive in the uncertain future. The traditional reasons include the expectation of a career in one of the learned professions: teaching, letters, law, even medicine and

economics. (Professional schools of all sorts are looking with growing favor upon applicants whose college preparation has stressed critical thinking and humane learning.) But many students whose career plans are still unformed find the study of English language and literature an ideal way to confront the great issues that challenge mankind now as in every age, however ephemeral our artifacts and technologies prove to be.

Foreign Languages and Literatures

Mastering a language and learning about its speakers have long held an honored place in the traditional liberal arts curriculum. Students of a foreign language gain a better understanding of their own language as well as of their own piece of the world. Travel and communication technologies have made the world much smaller, and the student who has gained self-knowledge and mutual understanding through study of another culture will enjoy a broader perspective on fellow world citizens.

Degrees

Each year the Department of Foreign Languages and Literatures, a department within the UMD College of Liberal Arts, graduates 20-30 students with specialties in French, German or Spanish. Some receive the Bachelor of Applied Arts (B.A.A.) degree in preparation for high school teaching; others regard their Bachelor of Arts (B.A.) degree as preparation for continued study at the graduate level, and many of these enter the premier graduate programs in America. Most, however, choose to major in a foreign language because they find the subject interesting, stimulating and rewarding.

Curriculum

The department offers a full range of language skills, literature and culture courses for a major in French, German and Spanish, a minor program in Linguistics, and occasional offerings through Continuing Education in Latin, Portuguese, Russian, and Chinese.

Graduation with Distinction

Students who complete an honors project during their senior year and have achieved a grade point average of 3.3 in all major courses may receive departmental honors and receive a degree with distinction. This honor is noted on the transcript.

Facilities and Resources

Language students are encouraged to spend an academic quarter in a foreign country. The department faculty works carefully with students to select programs suitable in their needs. The Department offers yearly a

merit scholarship for foreign study. The University of Lausanne in Switzerland, Laval University in Quebec, the University of Nice in France and the Sorbonne in Paris, have been the most frequent choices in the past for French. In alternate years a member of the German staff leads an academic Spring Quarter trip to Germany and Austria, where students live in German-speaking households in three different cities while taking UMD courses and earning credit toward their degree. The Spanish Department has taken a group of students for five weeks to Spain and is planning a trip Spring 1988.

Majors are encouraged to participate as tutors or teaching assistants for the lower division courses. French and German Tables meet weekly to give an opportunity for development and maintenance of skills in an informal atmosphere.

The foreign language honor society, Alpha Mu Gamma, brings students together for regular social meetings. Nearly all upper division courses are conducted in the major language; their small size allows a close working relationship with the professor.

The Department has a language laboratory with audio materials and Macintosh computers, and a commons room where students can browse in current magazines in French, German, and Spanish and consult some reference works. The Educational Resource Center offers a collection of feature films on video cassettes.

As many of our majors and minors start their course of study at the second year level, it is possible for them to obtain a double major without great difficulty. This enhances their possibilities in the job market upon graduation.

History - Indispensable for Understanding Today's Society

History introduces the student to the systematic study of civilizations past and present with emphasis upon the development of ideas and institutions. It is a basic course in the liberal arts. As such, an understanding of history is indispensable for the individual to understand his or her role in the contemporary society.

Historical study offers training in certain specific areas such as knowledge of other cultures and geographic areas, language skill (since considerable reading and writing are required) and specializes in thinking and critical reflection.

The department has eight full-time faculty members who advise students, conduct research and provide history majors with a thorough

CLA from 1B

exposure to the field. History majors may concentrate their course work in such areas as American, Ancient, European, and non-Western history. They are encouraged to spend their first two years completing liberal education requirements. These include English composition and elective courses from four broad areas of knowledge.

Lower division history requirements for the B.A. degree include sequences in two of these areas: Ancient Civilization, English history, Modern Europe, and American history. Upper division requirements consist of one 5000 level course and eight credit sequences in two of the following areas: American, European and non-Western history with additional electives to total 51 credits.

The College of Liberal Arts, in which the Department of History is located, also requires students to complete a minor or a second major. A total of 180 credits is required for a B.A. degree.

History majors with a 3.25 grade average in all history courses and 3.40 grade average in upper division courses may be eligible to participate in the department's honors program. Completion of a sequence of eight credits or more in a pro-seminar or seminar course and an honors-quality research paper is required.

Each year, the Department of History awards a cash prize—the Washburn Award—to its outstanding students.

There are certain job areas that have special interest for the history graduate. They include teaching, professional sales, and government service. Some history majors after graduate or professional school pursue careers in law, library science, ministry, and business.

Finally, there are those who study history for its own sake, just because they find it fascinating. No matter how they will make a living, their

training in history will give them a fine liberal arts education and some perspective on how to live.

What Is Women's Studies?

Women's Studies is a multidisciplinary program. It aims to build an awareness of women's rich history, an understanding of their contemporary status, and a consideration of their future possibilities. Like other women's studies programs in the United States, ours was established to help disseminate the scholarship on women that has emerged in the past two decades. All courses are taught and taken by both sexes.

Courses emphasize women's intellectual and creative contributions to our world and sensitize people to women's concerns. Classes teach the significance of gender distinctions in our lives: that men and women have different ideas and experiences, both of which need to be investigated. Subjects are taught from a feminist perspective, assuming that males and females have basically similar potentials and that external circumstances more than sex-linked abilities create differences and inequalities in men's and women's lives. Ideas are explored on intellectual, personal and practical levels.

Most courses are taught within particular departments and thus emphasize theories and issues appropriate to their academic discipline. The "Introduction to Women's Studies" (WS 1000) gives students an overview of contemporary feminist issues and scholarship. The "Seminar" (WS 5000) is designed to enable students minoring in Women's Studies to integrate their course work through an advanced interdisciplinary experience. A special project of WS students is the annual publication of a book of their research papers.

To enhance learning, Women's Studies also sponsors seminars, lectures, films, and

other special events. The program cooperates with other women's groups at UMD and in the community to educate others about women's concerns.

Why Minor in Women's Studies?

Students pursue the minor for a variety of reasons. Some want the opportunity to learn more about women's experiences than most other courses provide. Others are interested in exploring their values and learning about those of others. Many are preparing for careers with a woman-focus. All are developing job-related skills in critical investigation and written/oral communication.

The Women's Studies Minor complements many majors. Opportunities for graduates with a women's studies emphasis are available in such fields as business, management, health, education, criminology, social work, counseling, communications, psychology, politics, law, international affairs, the humanities and the arts. The minor also provides a background for graduate work; graduate students at UMD can use Women's Studies as a related field.

Program in Philosophy

"If a tree falls in the forest when no one is around, does it make a sound?"

The riddle is old but still a baffler. It even popped up in "Dear Abby" a couple years ago and drew correspondence from all over the country. Answers ranged from, "Sure it does," to "No way!" to "How should I know?" And if you take a philosophy class, don't be surprised if it shows up there.

Why? It's not because philosophers have a special interest in forestry (though some do), but because the question is really about the concepts we use without usually thinking much about them. What do you mean by 'sounds'? Are they just waves in the air, or a certain kind of

sense perception -- or both? If different people mean different things, then they can argue endlessly about the right answer without ever realizing that they are talking at cross purposes. This might not matter very much when it's just a harmless riddle in question. But if we are debating the characteristics of democracy, rights of the unborn, religious knowledge, how life can be meaningful, then getting our ideas straight can matter a great deal.

Philosophy is many different things. Above all though, it is the process of critical thinking at the most basic and general level. Among its branches are logic (the study of reasoning correctly), metaphysics (questioning of basic reality), epistemology (the study of what we know and how we know it), ethics, aesthetics, and various others. The Department of Philosophy and Humanities at UMD offers courses in all of these and at all levels from freshman through graduate credit. Many Philosophy courses satisfy Liberal Education requirements, and the Department sponsors both a minor and major.

But why study philosophy? First, and perhaps most important, because many students find it genuinely stimulating and enjoyable. Almost from the beginning of your course work, you are called on to think creatively yet logically about basic issues that have been at the forefront of human concerns for centuries. There is very little rote memorization or plowing through "canned" material. Philosophy throws you on your wits -- while simultaneously helping you develop them. No other academic discipline so directly assists students in developing the ability to reason and analyze effectively.

Because philosophy helps in this way to develop reasoning powers, students find that their work in philosophy aids them in all other UMD classes requiring problem solving skills or the careful expression

of ideas in oral or written form. Good courses to begin with are Problems of Philosophy (Phil 1001), Ethics and Society (Phil 1003), and Introductory Logic (Phil 1009). Each counts towards satisfying a UMD Liberal Education requirement. There are also other paths that can be taken; the faculty of the department will be glad to discuss options with you.

"But what can I do with a major (or minor) in Philosophy?" The answer seems to be: almost anything. Many Philosophy students choose to attend graduate or professional schools, and they typically find that they are extremely well situated to do so. For example, results on Law School and Business School entrance exams show that Philosophy majors average scores at or near the top of all those applying for admission. Indeed, philosophers score considerably higher on MBA admission tests than do undergraduate Business majors! This isn't really surprising. Most professions rely on advanced critical thinking and problem solving skills; these are at the heart of a philosophical education.

These aren't just statistics. They are the facts confirmed by former students. UMD Philosophy majors have successfully gone on to Law School, Business School, Seminary, and a few even to Medical School. Those who choose not to pursue further education beyond the BA degree have found challenging positions in business, government and elsewhere. Frequently they have commented on how the skills they developed studying philosophy have stayed with them while data accumulated elsewhere was forgotten. They have also remarked favorably concerning the flexibility of the degree requirement in Philosophy, allowing them to pursue a beneficial double major and to tailor programs to their own distinctive interests.

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Whether as a major, minor, or part of a quality liberal education, philosophy deserves your consideration. If you enjoy thinking through problems more than memorizing facts, if creative reflection attracts you more than looking in the back of the book for the answer, then Philosophy might be for you. After all, if you can't trust Dear Abby, who can you trust? Small class sizes, personal attention, and many extracurricular activities are further benefits of pursuing philosophy at UMD. For further information, contact any of the Philosophy faculty.

Political Science

Have you ever wished when you are talking to someone that you knew more about politics of the United States or other countries? If widening your horizons is one of your goals at UMD then courses in Political Science would seem a must.

The UMD Political Science Department offers a variety of classes not only on national, state, and local governments, but relations between governments and political theories as well. Those who have a great deal of interest become majors or minors as they seek to complete their bachelor of arts degrees. A number of our majors have continued their academic careers after earning their degrees by entering law or graduate schools. Others simply wish to take a few Political Science courses to supplement other majors since knowledge of the political system is useful for those wishing to be employed in various occupations.

Many students have also found the activities of the UMD

Political Science Association fun and rewarding. One need not be a major or minor to participate. Over the last decade and a half the Political Science Association has been one of the most active and visible departmental organizations on campus. During election years, the association sponsors debates and forums for candidates to present their views. They have also combined parties with presentations by speakers on various subjects from life in the People's Republic of China, Guatemala, and the Mideast to how a national presidential campaign is waged. A commons room provides a place to meet other students of similar interests in an informal setting.

If you wish more information, stop up to the third floor of CINA Hall for more details.

Sociology-Anthropology-Geography Department

Four academic majors are available through the Sociology - Anthropology - Geography Department: Anthropology, Criminology, Geography, and Sociology. Minors are offered in each of these areas except Criminology.

Anthropology full-time faculty are Dr. Stan Aschenbrenner, Dr. Tim Roufs, and Dr. Dave Smith. Part-time faculty are Dr. Art Aufderheide, Mr. Gordon Peters, and Ms. Caroline Sadler. Dr. Aschenbrenner studies Greek peasant life and does research in archaeology. Dr. Roufs is the 1986 recipient of the Albert Tezla Teacher/Scholar award and is continuing his work on the life history of an Ojibwa Medicine Doctor. Dr. Smith has studied the Chipewyan who live in the Canadian subarctic and is also exploring small

scale agriculture. Mr. Peters is an archaeologist with the U.S. Forest Service and supervises a summer Archaeology Field School.

Criminology has the largest number of students of the four majors in the department. Full-time faculty members are: Dr. Walter Baeumler, a native of Germany who studies comparative law and corrections; Dr. William Fleischman, who is interested in conflict resolution and coordinates the law enforcement seminar; Dr. John Hamlin, Criminology Coordinator, who is researching "fear of rape," and Dr. Jane Ollenburger, who will be joining the faculty in the fall of 1986 and is an active researcher in corrections and women's issues. A number of part-time faculty contribute to the criminology program: Fred Friedman is a practicing attorney and teaches Sociology of Criminal Law, Doug Lemons is a social worker at St. Luke's Hospital and teaches Crisis Intervention, Butch Weegman works in community relations for the Duluth Police Department and teaches Police Community Relations, and Dale Wolfe is a judge in Carlton County and teaches Courts and Corrections and Juvenile Justice. In addition to the classroom instructions, students benefit from law enforcement and correction professionals as they supervise student internships (criminology students are required to have 180 hours of supervised work/study experience during their senior year).

Geography faculty include Dr. Jim Hufferd, Dr. Matti Kaups, Dr. Gordon Levine, and Dr. Fred Witzig. Dr. Hufferd is traveling in Brazil gathering material for World Regions and Geography of Latin America; Dr. Kaups spent spring quarter of 1986 in Finland continuing

his research in ethnohistory and will be visiting Iceland on his way back to the United States this summer; Dr. Levine will be studying geographic changes in milk production in the United States during a single quarter leave winter of 1987; and Dr. Witzig is leaving for England this summer and will be teaching in the UMD Program in England during the fall quarter. Mark Flaherty is a practicing community and regional planner who brings his experience into the classroom on a part-time basis. Dr. Lev Hoag, Professor Emeritus, teaches Elements of Weather.

Some of the faculty teaching in the criminology program also teach in the sociology program. Drs. Baeumler and Fleischman teach sociology

courses along with Dr. Sue Janssen, who teaches research methodology, and Dr. J. Clark Laundergan, department head and alcoholism researcher. Dr. Dennis Brissett from the Behavioral Science Department of the UMD Medical School teaches sociology/psychology. Bruce Mork teaches evening classes as does Dr. Jackie Royce.

In addition to classes and more informal interactions with faculty, students have their own organizations: the Anthropology Club, Geography Club and Sociology-Anthropology Club. The 73 students graduating with Sociology-Anthropology majors in 1986 suggests the popularity of these majors and the vitality of the department.

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College of Science and Engineering

CSE is an exciting place to be these days. The basic sciences, mathematics, and computer science continue to provide students with solid academic backgrounds. Three additional degree programs in engineering have been developed recently, and programs like engineering physics are currently under development. Facilities and equipment are first-rate and expanding. The new engineering building, with its specialized classrooms and laboratories, will soon be ready for occupancy. Students have many opportunities to engage in undergraduate research, to join student branches of professional societies, and to participate in a wide variety of clubs pertaining to their majors and special interest. This year *Interface*, the CSE newsletter, invites more student input and involvement with every phase of its production. Opportunities for interaction with faculty, graduate students, and other undergraduates are plentiful. Students can receive an excellent education and participate fully in the expansion and progress going on around them.

CSE students, your college welcomes you!

ACADEMIC PROGRAMS

Sciences

The departments of Biology, Chemistry, Geology, and Physics comprise the biological and physical science component of the College. The sciences

are laboratory based disciplines and students majoring in these fields can look forward to both lecture and lab courses. The latter include current experimental techniques and methods, a broad range of hands-on exercises, and practice in writing technical lab reports.

These departments have long offered the degrees of Bachelor of Science (B.S.), Bachelor of Arts (B.A.), and technical courses for the Bachelor of Applied Science (B.A.S.). The B.S. degree is designed for students who plan careers as professional scientists or who plan to seek graduate training. The B.A. degree (offered through the College of Liberal Arts) is for students who wish to study a science but also desire a strong liberal arts background. The B.A.S. degree (offered through the College of Education and Human Service Professions) is for students who plan to teach at the elementary or secondary school levels.

The facilities of the Department of Biology include greenhouses, herbarium, aquarium room, and computing equipment. Lake Superior and extensive regional grasslands and forests provide outstanding opportunities for field study. Experimental and theoretical chemists comprise the Chemistry department, which offers extensive computer-aided instruction, classroom instruction in synthesis, numerous analytical techniques, and hands-on experience with a variety of spectrometers. Geology is a logical field for a student on a

campus located in a unique geologic region of the world. More than 3½ billion years of history are recorded in the rocks of the region, so the department naturally emphasizes field studies. Physics is the discipline that underpins many other areas of science and technology. In addition to the well-established Bachelor of Science degree in physics at UMD, an engineering physics program is under development.

The four science departments have graduate programs leading to the Master of Science degree. As undergraduate students, you will interact with some of these graduate students in instructional laboratories, recitations, and possibly on a research project.

Engineering Programs

CSE offers three new engineering programs that are not available anywhere else in Minnesota. They are computer engineering, industrial engineering, and materials processing engineering. All are four-year programs leading to a bachelor's degree and all are designed to meet the standards of ABET, the national Accreditation Board of Engineering and Technology. Computer engineering was established at UMD in 1984. Dr. James H.W. Tseng heads the department, which is housed in Marshall W. Alworth Hall, near the well-equipped Computer Center. The computer engineering department offers students state-of-the-art laboratories and equipment. Computer engineers may work with

"software" (computer programs) or with "hardware" (design and operation of computers themselves). Or they may integrate computers into digital-processing systems that perform specific tasks. Computer engineering is a specialized branch of electrical/electronics engineering. Employment opportunities are excellent for graduates in this field.

Industrial engineering is the broadest of all engineering branches. Industrial engineers study and adapt product designs and associated plant facilities in order to optimize production. To meet the demands of modern automated technology, UMD's program has a strong manufacturing emphasis, which stresses computer controlled equipment and planning. Dr. Fred Robinson heads the department, which will be housed in the new engineering building.

Materials processing engineers develop new methods to produce and control chemicals, minerals, and fossil fuels. They also develop ways to control polluting and toxic substances. MP engineers combine separation processes and other operations into new systems for improved products and processes. Students will have an opportunity to participate in ongoing research through the close tie between the department, headed by Dr. John Patten, and the UMD Natural Resources Research Institute. The materials processing program will also be housed in the new engineering

building.

Pre-engineering has been a strong curriculum at UMD for more than 35 years. Pre-engineering refers to the first two years of a four-year engineering program. Students take courses primarily in math, computer science, chemistry, physics, English composition, and liberal education electives. The strong foundation in math and science enables students to successfully complete their baccalaureate degrees in engineering. Pre-engineering is available not only for all three engineering programs offered at UMD, but for several other engineering fields including mechanical, civil, electrical, aerospace, and chemical. Professor Lewis Oakland, 102 Math-Geology, 726-7585, is Director of Pre-Engineering.

Mathematics, Statistics, and Computer Science

Mathematics is the language of the sciences and engineering, the base on which statistics and computer science have developed, and a mature science in its own right. Effective July 1, 1986 the Department of Mathematical Sciences split into the Department of Mathematics and Statistics and the Department of Computer Science.

Programs in the Department of Mathematics and Statistics are designed to develop competence in mathematical techniques and to sharpen mathematical insight. Students interested in a career in

CSE to 5B

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statistics, actuarial science, teaching, or industrial applied mathematics may wish to pursue bachelor's degrees in mathematics. A math major or minor is practically indispensable to physical scientists and is also an aid in business and economics studies. A master's level program in applied mathematics is currently awaiting final approval.

Computers pervade our society and computer scientists are in high demand in business and industry. Computer science has evolved into an independent discipline, with its own research interests. Computer scientists develop software and adapt programs for existing computers. Students gain hands-on experience on several mini- and micro-computers, as well as practice in programming on the mainframe computer. A Master of Science program in computer science is awaiting final approval.

Aerospace

The Department of Aerospace Studies offers two ROTC programs, both culminating in a commission as second lieutenant in the Air Force. One program requires four years of aerospace studies; the other requires only two years.

Pre-professional Programs

CSE offers several pre-professional programs related to the physical and life sciences. These prepare students in pre-professional course work but also offer a broad background in mathematics, biological and physical sciences, humanities,

and social science. Some pre-professional programs may be fulfilled in 1-2 years, followed by a transfer to another institution. Some take four years for completion with a

baccalaureate degree. In addition to pre-engineering, other pre-professional courses (such as pre-medicine, pre-dentistry, pre-medical technology, pre-agriculture, pre-pharmacy, and pre-veterinary medicine) are available through the college.

ENRICHMENT AND ENHANCEMENT

Honors Program

The Honors Program seeks to challenge high ability students and to motivate them still further toward the achievement of academic excellence and enrichment.

Honors students participate in special seminars, engage in independent research guided by a faculty adviser, attend meetings of professional societies, and meet with visiting scientists in informal settings. Each year 15 CSE honors students are awarded undergraduate summer research stipends and spend 10 weeks engaged in a research project with a faculty member. In 1986-87, CSE will initiate an Honors Seminar on Science and Society. Honors sections of lecture and lab courses are planned. Juniors and seniors with a high grade point average may be formally admitted to their departmental Honors Program. Successful Honors Program students receive recognition from their departments and on their transcripts. The CSE Honors Program is directed by Dr. J. Gallian, Department of Mathematics and Statistics.

Undergraduate Research

Research by undergraduates provides an excellent means for enhancement and extension of educational opportunities, since research builds on subject matter taught in regular courses but goes beyond the course material.

Research also offers students a chance to work one-on-one with faculty, post-doctoral fellows, graduate and other undergraduate students and to develop colleague relationships much as they would in career settings. Furthermore, undergraduate research enables students to work with state-of-the-art equipment, using instruments that are not available in ordinary classroom situations. Prospective employers often look for signs of some research experience.

There are three main avenues for CSE students interested in undergraduate research:

1) UROP (Undergraduate Research Opportunities Program) is designed to fund students to work with a faculty member on a research project as an integral part of the research team. Interested students submit a proposal for 120/140 work hours. Successful proposals may be funded up to \$750 for salary and up to \$250 for expenses connected with the project.

2) Undergraduate Research Stipends: These are untaxable awards of \$1,500 for 10 weeks of summer work by students who are part of their departmental Honors Program. This program is very intensive since, unlike UROP, it involves 400 hours of

research work. Like UROP recipients, stipend recipients present their results at a colloquium, a conference, or in joint publication with a faculty member.

3) Courses for Credit: Students may sign up for undergraduate research courses, which are not dependent on grant money. These independent study and special readings courses for 1-3 credits appear on the student's transcript.

Extracurricular Activities

Along with athletics, cultural, and purely social events, a wide variety of clubs and organizations are open to students. National honorary societies, student chapters of professional societies, and various service organizations are all available on campus. They sponsor social, educational (tutoring, lectures, field trips), and special events (contests, programs, banquets).

Here is a sample of some organizations you might be interested in joining:

Biology students may join the Biology Club. The Chemistry Club offers free tutoring. Chemistry students may also affiliate with the American Chemical Society. Geology students have their own club room and take spring break field trips to places like Big Ben, Key West, and the Grand Canyon. Geology students may also join AIME (American Institute of Mining and Engineering) as student members. Computer Science has an active ACM (Association for Computing Machinery) student computer club that sponsors weekly colloquia on topics in math and related subjects. Mathematics and Statistics students can join the

Math Club. CS and math students may be elected to Pi Mu Epsilon, a national honorary mathematics fraternity.

These organizations and others like them exist to benefit students. Participation can enhance your college experience, introduce you to more people, and give you more information about your chosen field. Get involved!

Where to Get Help

Advisement - Every student is assigned a faculty advisor. He or she can be your best counselor for help with courses, for career information, and for aid in clarifying academic and professional goals. Your advisor is an important contact.

General Information - One of the advantages of a medium-size school like UMD is a friendly, personal atmosphere. Staff and faculty are open to your questions and are glad to offer help and information. The college office and Dean Rapp's office are located in 108 Math-Geology. The Student Affairs Office and the office of Associate Dean Tsai and Director of Pre-engineering Law Oakland are in 102 Math-Geology. Effective winter quarter, CSE administrative offices will move to the new engineering building. You will be notified about room and telephone numbers.

Department offices are other sources of help. The Information Desk on the first floor of Darland Administration Building can provide answers to many questions. Watch the STATESMAN, your college newsletter *Interface*, and the CSE bulletin boards for announcements and deadlines that pertain to you.

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From Art to Fine Art

The Art Department offers both majors and non-majors the opportunity to work in a studio in the areas of painting, drawing, sculpture, print processes, ceramics, photography, fibers and weaving, jewelry and metals, and performance art. Intermedia or mixed media projects are encouraged, either within the visual arts or in combination with music, dance, theatre, or other disciplines. Art Today provides the background to help students appreciate the concerns of the visual arts in this century. The Department also offers a complete range of art history courses, including Survey of Western Art History I and II, and others which cover specific time periods and cultures. Additionally, students may elect internship possibilities in the graphic arts, art education, or museum work.

Undergraduate art majors may select from one of four Departmental emphases: studio art; graphic design; art education; and art history. Majors earn the B.F.A., which is the recognized professional degree in the arts. Artists and art historians may pursue employment in a number of areas, such as arts administration and management; museum work; graphic design and visual communications; and teaching at various levels. Alumni are currently employed in colleges, elementary and secondary schools, museums,

advertising and design firms, the publications industry, and art galleries and cooperatives.

At the graduate level, the Department offers the M.A. in Studio Art or Art Studies. The latter degree allows students with broad interests to link other disciplines with the arts. The Department offers scholarships at both the undergraduate and graduate levels and maintains a Teaching Assistantship program, as well as offering Graduate Departmental Fellowships.

During the year, the Department sponsors visiting artist lectures, often in connection with special exhibitions at the Tweed Museum of Art, and seminars and panels related to careers in the arts. The Tweed Museum of Art, adjacent to the Art Department on the campus, is a major resource for art students, providing the opportunity to view changing exhibitions of original works of art. Tweed is the site for the annual student show, and the Museum's Studio Gallery provides seniors and M.A. studio candidates the opportunity for a solo or joint exhibition, with each student taking responsibility for the many aspects of professional presentation. The Student Art Guild sponsors an annual auction of art works as a fundraiser, and plans trips to other cities for gallery visits.

"... (UMD) has become a

cultural center for Northeastern Minnesota through its museum and performing arts activities."—*A Mission and Policy Statement for the University of Minnesota Board of Regents, 7/11/80.*

The School of Fine Arts is unique in the university system and state as a collegiate unit whose main purpose is to provide educational programs and services in the fine and performing arts.

Because of the foresight of a number of generous donors, university administrators, and Minnesota legislators, UMD has developed some facilities, endowments, and programs that are recognized regionally, throughout the state, and nationally.

The Tweed Museum of Art, one of the outstanding collegiate art museums in the country, was established by a gift from Mrs. Alice Tweed Tuohy. The museum displays more than 50 art exhibits each year which attract over 78,000 people. The permanent collection contains 3,500 works of art, many of which are considered major works with a value of over \$13.5 million.

The Marshall Performing Arts Center houses the theatre department and serves as the major performing arts site for music, dance, and theatre. The Minnesota Repertory Theatre uses the facility over the summer, attracting more than 14,000 people.



Fool For Love, starring Brett Rickaby and Lisa Scott Gordon was on stage last fall at MPAC.

One of the theatre productions last year ranked eighth in competition with 574 other colleges and universities. The music department produces one of the finest choral, band, opera, and jazz programs in the state. A number of the faculty are highly respected as performers, conductors, and composers. The art faculty likewise have national and international recognition as studio artists and scholars.

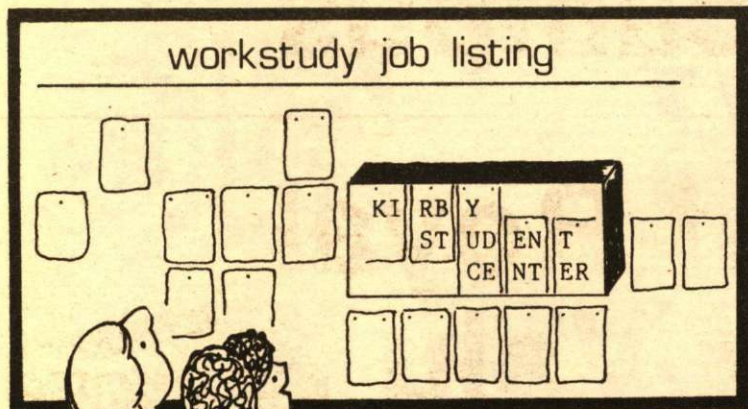
A fairly recent addition to the UMD cultural offerings is Glensheen, a mansion and surrounding property, which as a tour-house museum has had 722,000 visitors in just six

years of operation.

If UMD is to continue serving and growing as the cultural center of Northeastern Minnesota, the university must provide additional support to maintain the present facilities and programs as well as match the private support that continues to be generated.

"...the University is to be congratulated for its interest in and support of the fine arts."—*Report of a Visit by the Commission on Institution of Higher Education of the North Central Association of Colleges and Schools, 10/9-12/77.*

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Do Re Mi Fa Sol La Ti Do

The Department of Music at UMD invites you to continue with your music interests at the collegiate level. In all cases, credit can be applied toward graduation requirements, and in some instances, credit can be applied toward Liberal Education Requirements.

About 60 percent of the membership in our musical organizations are non-music majors and the participants come from every part of Minnesota and the surrounding states. It is a splendid way to meet new people and continue with your musical activities and cultural development. Indeed, we feel that membership in our musical organizations enhances a person's university life and experiences. Our music staff offers both private and group lessons. Instruments are available at no charge to students in ensemble. In addition to our performing organizations, we have a number of courses designed to broaden your knowledge and

relationship to music.

Explore music at UMD. We are sure that you will be able to find courses and organizations that will be of special interest to you, regardless of your musical background or experience.

In the Fall, Marching Band and the Flag Corps are an important part of UMD home football games. Also during the Fall, auditions are held for the Wind Ensemble, Concert Band, the Jazz Ensembles, Pep Band, the UMD Symphony Orchestra, and the University Chamber Orchestra.

If you prefer to use your voice rather than your instruments, UMD offers a wide selection of choral opportunities. Auditions are also conducted in the Fall for the Freshman Chorus, Elizabethans, Jazz Choir, the UMD Community Oratorio Society, the Opera Workshop, and University Chorale.

A number of jazz combos and several guitar ensembles are also formed throughout the school year. We look forward to having you with us.

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Children and families have many needs

To meet the needs of children and families in our society, well educated professionals are needed in a variety of service fields. The Department of Child and Family Development has rigorous preparation in the following fields: early childhood education, kindergarten and elementary education, home economics and special education.

All teaching licensure programs within the department are both NCATE and state approved.

A special get-acquainted information session related to departmental programs will take place on Wednesday, September 10, 1986, from 3:30-4:30 in Montague 111. Come and meet faculty, fellow students, and staff in the department. Refreshments will be served.

Beginning Spring quarter 1987, the department will offer an honors course to all students enrolled in departmental programs who are in the top 10 percent of their class. Other honors courses in the college and university will also be available to those who qualify for admission.

A major or minor in Early Child Care and Development prepares students for educator roles in such areas as Headstart, nursery schools, day care, and early childhood family education. The prekindergarten licensure is

offered through this program. Graduates of the program are serving in such roles as Headstart lead teacher, early childhood educator in an Early Childhood Family Education Program, director of an intergenerational day care center, and a team leader in an infant center. With the increasing number of parents who need out-of-home care programs for their children, employment in this field offers an opportunity for significant contribution to the well-being of young children and their families.

Students may participate in a very active student organization--the Early Childhood Club--which offers opportunity for social and professional development.

To take upper division courses, a student must be admitted to candidacy. This process includes passing a test of basic skills, filing an application, and securing letters of reference. See Dr. Sword or Dr. Carlson located in the suite of offices in Montague 120 for more information. You are cordially invited to attend the information get-together on September 10.

A major in elementary or kindergarten-elementary education prepares students for employment in elementary schools. The elementary and kindergarten-elementary teaching licensures are offered

through this program. Currently, the program has extensive field experiences which offer opportunities to engage in individual and small and large group teaching/learning experiences with an emphasis on cooperative learning and critical thinking as well as other basic skills. Special modules within each methods class stress the importance of modifying methods and materials for children with special needs. Students have become involved in the development of interactive videodisc, which is a new technology to better prepare students for the complex teaching role. There are also opportunities for research involvement in areas such as a cognitive skills approach to teaching writing and the evaluation of field experiences.

To take upper division courses, students must be admitted to candidacy. This includes taking a test of basic skills, filing an application, securing three letters of reference, and participating in an interview. Students may participate in recruitment fairs with hiring officials as they near graduation. See Dr. Gemeinhardt in Bohannon 113 or Dr. Carlson in Montague 140 for more information. You are cordially invited to attend the information session on

September 10.

Preparation in the field of home economics offers an extensive choice of occupations. There is a teaching major which prepares students to teach home economics at the secondary level. A major in general home economics with an internship prepares students for diverse careers in areas such as fashion merchandising or home furnishings. Minors, family life concentration, and a vocational parent education licensure program are also available. Graduates have found employment in such fields as parent education, secondary home economics teaching, and fashion merchandise buying with national clothing chains. There are two active student clubs which offer opportunities for professional growth, socializing and service. For further information, contact Dr. Watts in Montague 134. You are cordially invited to attend the information session on September 10.

The special education program has three active licensure programs: learning disabilities, early childhood special education, and trainable mentally retarded. The licensure in emotional disturbance is currently being revised and a moratorium has been placed on student admission. With services for

children and adults with special needs being mandated from preschool through adulthood, there is much opportunity to work with many diverse special areas. A program has been developed with a strong field experience component to complement the theory provided on campus. Students may work in public schools' special needs classrooms or serve as consultants and collaborators with regular educators who also work in early childhood special education programs, including comprehensive assessment centers. Specialized centers, such as developmental achievement or rehabilitation centers, are also possibilities. In this field, educators serve as members of teams of professionals who together strive to meet the needs of all children. For further information, contact Ms. Schauland or Dr. Carlson in the suite of offices in Montague 120. You are cordially invited to attend the information session on September 10.

All students should be aware that in the state of Minnesota, all students who graduate after April, 1988, are required to pass basic skills and advanced content specialty tests to be licensed in a teaching field.

ATTENTION

Freshmen Interested In:

Early Childhood Education
Elementary Education
Kindergarten/Elementary Education
Home Economics
Special Education

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September 10, 1986
Montague 111 3:30-4:30 p.m.
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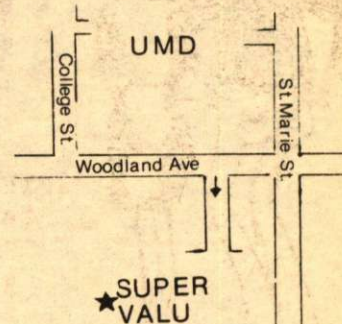
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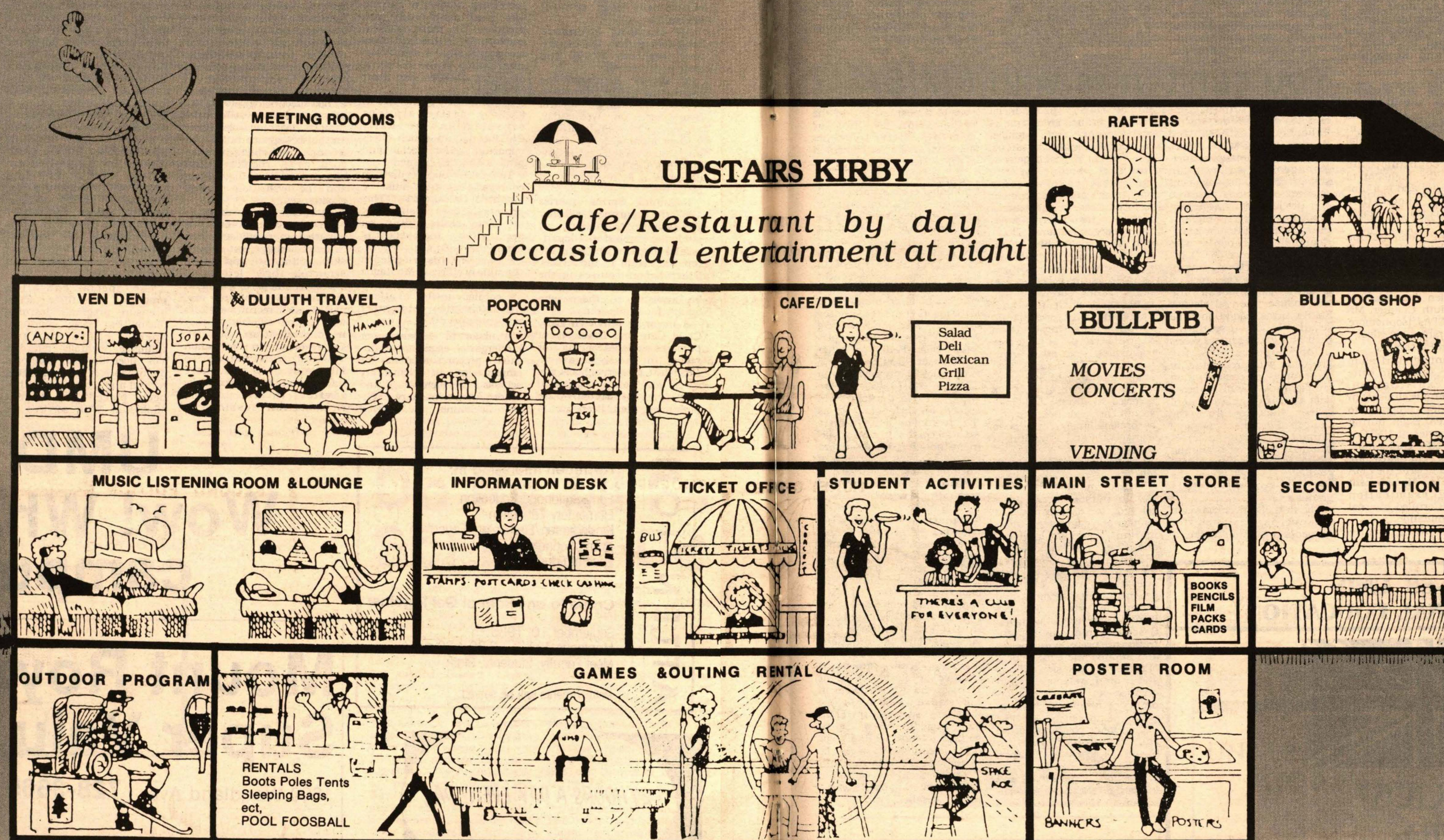
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Take into account...

The role of the accountant is becoming increasingly important in response to changes in economic and social conditions, to new knowledge and technology, and to demands of government agencies and uses of financial statements for more comprehensive financial information.

Accountants typically are called on to design and implement accounting systems, prepare financial statements and reports, measure costs of operation, conduct internal audits, interpret and analyze budgets and prepare tax returns.

Managers in all organizations are more and more dependent upon information to achieve efficient and effective operations. The accountant is in an excellent position to provide information useful for making economic decisions to management, investors, creditors, government and users of financial statements.

Degree

The present Accounting degree program can be traced to 1952 when a concentration in accounting became available. In 1980 the Bachelor of Accounting (BAC) degree was approved by the Board of Regents. In preparing the curriculum for this degree program, the faculty followed the guidelines established by American Assembly of Collegiate Schools of Business for accredited programs in business and accounting.

Since 1982 the number of graduates receiving the BAC degree has been ranging from 85 to 100 per school year. The total number of students enrolled in the BAC program has averaged approximately

350 majors.

Accounting majors enrolled in their freshman and sophomore years are designated as "preaccounting." In order for a student to be considered a BAC Candidate in their junior and senior years, they must be admitted to candidacy. The admission to candidacy is done on a competitive basis using overall grade point averages and grades earned in School of Business and Economics courses.

Scholarships

Scholarships are awarded each year by several public accounting firms to students who have shown excellence in academic work and potential for careers in accounting. The Annual Accounting Club Banquet is the highlight of spring activities and is a time when many accounting graduates return to renew friendships.

Accounting Scholarships include: Deloitte Haskins & Sells (junior); Ernst & Whinney (junior); Honeywell, Inc. (junior); McGladrey Hendrickson & Pullen (junior); 3-M (junior); Duluth Chapter, MN Society of CPAs (sophomore, three scholarships awarded).

Careers and Placement

The accounting curriculum prepares the student to write the CPA examination. Minnesota permits students in the accounting program to write the CPA exam during their last quarter at UMD or immediately after graduation.

Accounting graduates are also prepared to write the CMA (Certificate in Management Accounting) examination and/or CIA (Certified Internal Auditor) examination.

The accounting faculty

works closely with the UMD Career Development and Placement Office in finding positions for graduates. Last year, UMD accounting graduates were placed in accounting positions in industries, public accounting, and governmental and not-for-profit organizations. As the number of graduates in accounting increases, greater emphasis is placed on academic success, personal development and commitment to the accounting profession.

The demand for college and

vocational school teachers of accounting is excellent for students interested in pursuing graduate studies in accounting.

Internship Programs

On-the-job experience makes it possible for students to see more clearly the relationship between education and future work activities. Accounting internships provide this learning experience for a number of students each year. An internship may be completed during the summer in business or during the

winter quarter in a public accounting or not-for-profit organization. In each case, the student works full time for a period of 10 to 12 weeks in accounting positions similar to those that the student might find as a graduate. Accounting students also serve as members of student teams helping small business firms solve management problems in accounting finance, marketing, and production as part of the Small Business Institute Program at UMD.

You can't miss with FMIS

The FMIS Department is one of four departments in the School of Business and Economics. FMIS offers courses in the areas of finance, management information systems (MIS), management science, operations research and production management to support the degree programs in the School of Business and Economics. Students who choose a finance or MIS/management science concentration will be assigned a faculty advisor from FMIS and will complete several elective FMIS courses in addition to the required FMIS courses during their junior and seniors years.

Job opportunities for graduates with preparation in these areas of concentration are plentiful. The most recent data available for placement of college graduates from the *College Placement Council Annual* for 1985-86 indicates that the demand and beginning salary for finance and MIS graduates is well above the average for all college graduates.

The field of concentration in finance is designed for students who would like to

pursue careers in financial management, investment management, and management of financial institutions. The financial management function is one of the cornerstones of private enterprise and government agency management. Financial managers are concerned with the procurement and allocation of funds within organizations in industrial, commercial and financial firms as well as in governmental units. Other specialists are concerned with financial decisions and operations within banks, savings and loan associations, insurance companies, and other institutions which handle vast amounts of money. Still other financial specialists are involved in diverse functions within the securities industry as brokers, analysts, portfolio managers, and investment bankers.

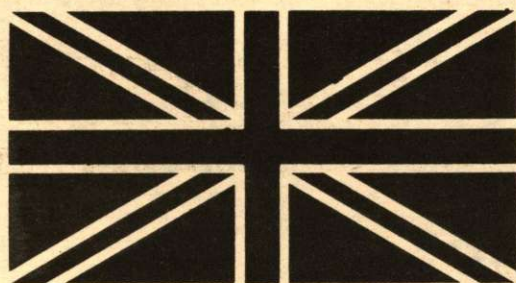
The field of concentration in MIS/management science is offered for students who would like to pursue career areas related to designing and managing computer information systems, applying analytical problem solving techniques to modern management processes, operations research, and production management and control in private business firms and government agencies. Graduates from this concentration are prepared to analyze and improve the effectiveness of managerial decision making and control systems in profit oriented as well as not-for-profit organizations. They may obtain employment in line management positions within the functional areas of business - economics, finance, marketing, operations, production, or personnel and industrial relations. Specialization in this area may also

lead to a position within the information systems or administrative systems department of an organization of public accounting firm.

Along with completing traditional course work, FMIS students have an opportunity to explore the possibilities for non-traditional learning activities within the School of Business and Economics such as working as an intern in business firms or government units, tutoring students enrolled in basic finance and MIS/management science classes, and completing research projects in cooperation with FMIS or other School of Business and Economics faculty members. In addition, FMIS students are encouraged to participate in student organizations such as the Investment Club, Business Administration Club, Accounting Club and other student groups where a great deal of learning and social interaction with other business and accounting students occurs.

FMIS 1202, Introduction to Computer Information Systems, is the first course School of Business and Economics students will complete for the FMIS Department. This course will acquaint students with the computer facilities on the UMD campus and will teach them how to access and use these facilities. Students are encouraged to ask questions about careers in business generally, about careers in finance and management science, and about careers in information systems while they are enrolled in FMIS 1202. In addition, any student with an interest in a finance or MIS/management science career should stop by the FMIS Department office in SBE 21 to pick up materials or talk with a faculty member.

1987-88 UMD INTERNATIONAL EDUCATION



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Open wide for Dental Hygiene

As our country gradually shifts from an industrial product oriented economy to a service oriented economy, the U.S. Labor Department predicts that the strongest employment growth rates will be in the health care sector for allied clinical health workers such as dental hygienists. Dental hygienists, the only licensed dental auxiliaries, may find careers in private dental offices, state or federal agencies, school health programs, hospitals, and industrial clinics, as well as in dental hygiene education. They perform many types of clinical procedures, such as removing deposits and stains from teeth, taking medical histories, and preparing diagnostic aids for dentists, including x-rays. Hygienists also work with patients and with groups of people in various settings providing oral health counsel-

ing and education.

UMD's Dental Hygiene Program, the only one in Northern Minnesota, consists of a pre-dental hygiene curriculum which is open to all students and a core curriculum offered only to students who are admitted into the program. A class of 20 students is selected each September for admittance into the program.

The pre-dental curriculum, which can be completed in one academic year, is a series of courses in basic sciences, psychology, sociology, communications, and various liberal arts courses. The core curriculum requires two academic years to complete. It includes study of anatomy, biomaterials, radiography, community health, pharmacology, dental hygiene and related subjects. Primary emphasis is placed on practical

clinical experience on patients in the University of Minnesota, Duluth Dental Hygiene Clinic. The clinic has 13 fully equipped operatory areas, eight for dental hygiene services, two for periodontal treatment, and three for radiography. Operation of the clinic is supported by a reception room, several counseling areas, laboratory areas, and an x-ray dark room. Students use state-of-the-art equipment and technology as they provide dental hygiene services for patients who attend the UMD Dental Hygiene Clinic. In addition to course work, laboratory work, and clinical practice, students participate in community health projects in various hospitals, health facilities, and school systems in the city of Duluth.

The entire program facility, including faculty offices,

student lounge, study rooms, classroom-laboratory, and clinic, is located on the ground floor of Marshall W. Alworth Hall. It is a very attractive, well-equipped, pleasantly appointed facility designed for the comfort of children and adults. Dental hygiene services, preventive dental services, and dental x-rays are available to UMD students at a substantially reduced cost (\$8). Students who need these services are encouraged to call our receptionist, Cindy Upton (726-8555), for an appointment.

Instruction by five full-time faculty members (including a director) is supplemented by several practicing dental hygienists and dentists who are employed as part-time faculty. Students, therefore, have the opportunity to work with practitioners as well as with teachers.

The UMD Dental Hygiene program is fully accredited by the American Dental Association Commission on Accreditation, and has become nationally recognized for participation in regional and national health surveys and participation in national board test construction. The program's highest priority is with its students, training them to provide dental prophylaxis, dental health education, and other dental hygiene services in clinical settings. Successful completion of the program qualifies the graduate to take Regional and National Board Examinations necessary for the license to practice.

Students interested in careers in dental hygiene should contact us at Room 73 MWAH, or call 726-8556.

What is Biology?

The Department of Biology educates students to meet the complex challenges they face as informed citizens and trained biologists in our constantly changing society. The department has 14 faculty members, and facilities include excellent teaching and research laboratories, greenhouses, a herbarium, an aquarium room, and computing equipment.

The Department provides a broad range of courses and research experience for undergraduate and graduate students as part of a liberal education, preparation for graduate school, or as a sound basis for professional training in the biological and health sciences.

Degrees offered:

Biology B.S. or B.A. major or minor; Life Science B.A.S. major through CEHSP; Biology M.S.

Pre-professional areas:

Pre-Agriculture, Pre-Agriculture Education, Pre-Dentistry, Pre-Fishery and Wildlife, Pre-Forestry, Pre-Medicine, Pre-Nursing, Pre-Optometry, Pre-Veterinary Medicine.

Honors Program:

The Honors Program of the Department of Biology encourages outstanding biology majors in their study of and interest in biology and promotes their development as active scholars. Honor students in the Biology Program maintain a high grade point average, participate in departmental seminars, and conduct independent research under the supervision of a faculty member.

Qualified students may apply to participate as candidates in the Honors Program as early as their freshman year and as full members after their sophomore year.

Biology Club:

The Biology Club welcomes all Biology majors and minors. It is both a professional and social club with activities ranging from participation in department meetings and seminars; guided tours for visitors to our facilities; maintenance of the "snake pit," to the more social aspects of cross country skiing, sauna parties, Oktoberfest and others. All freshmen are cordially invited.

Getting technical

The Department of Industrial and Technical Studies offers undergraduate programs in electronic and manufacturing technology, industrial-technical teacher education, and vocational-technical teacher education. The department also offers a Master of Industrial Safety degree with options in industrial safety and industrial hygiene.

The electronics and manufacturing technology programs prepare students for applied engineering positions in industry or technologist positions which coordinate the utilization of materials, machines, and manpower in producing industrial products. The technologist's broad background also enables an individual to function in the areas of technical sales, service,

and training. Student placement has been excellent, and there is an increasing demand for this type of graduate in industry.

The baccalaureate degree major in industrial-technical education is designed for teachers of junior and senior high school industrial and technical education programs. The baccalaureate degree major in vocational-technical teacher education is designed for in-service teachers of vocational education or for individuals with the extensive technical work experience necessary to qualify for vocational-technical teacher licensure.

The Master of Industrial Safety degree is designed to prepare qualified personnel for safety engineering or industrial hygiene supervisory and

management positions in business, government, and industry.

The department is housed in a contemporary structure comparable to the finest in the state. There are laboratories for teaching and research in the areas of AC-DC electricity, solid state electronics, digital electronics, microprocessors, technical drawing, reprographics, CAD/CAM, graphic communications, hot and cold material processing, materials testing, machine design, machine processing, hydraulics and pneumatics, power, and manufacturing. The building also houses an Industrial Safety Resource Center, a Regional Aviation Resource Center, and a Federal Aviation Administration Test Center.



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Minnesota regional development commission executive director, city planner, planning firm co-owner, human services planner, downtown development executive, city administrator, county planning director, sanitary district executive—all are position titles illustrative of a cross section of graduates of the Urban and Regional Studies Program at the University of Minnesota, Duluth (UMD).

The UMD Urban and Regional Studies Program was formally established in 1970, following approval by the University of Minnesota Board of Regents and the Minnesota Higher Education Coordinating Board of what was originally called the UMD Urban Studies Program. Since that time some 250 graduates have completed the multidisciplinary program and

received their baccalaureate degrees.

Notwithstanding the current exceedingly tight job market for persons interested in planning careers, many UMD program graduates have found employment and are continuing to pursue careers in planning or planning related fields. While a number of these persons have left the state in pursuit of employment, a goodly number have remained within Minnesota.

A number of graduates with strong interests in administration have become city administrators and managers. Others fill a broad range of positions in state and local administration.

On balance, it would seem that thus far a larger number of UMD graduates have sought and found career jobs in planning as compared to those

in administration. The vagaries of the present and future job market could well reverse that trend.

Several graduates have pursued and completed graduate degrees in planning, administration or related disciplines. A number of others have received Juris Doctor (JD) degrees and are presently practicing law, both in the public and private sectors.

An integral and perhaps most beneficial aspect of the UMD program includes the requirement of completion of on-the-job experience via the internship program. Through excellent cooperation with various governmental units and agencies, valuable opportunities are provided for such experience. Many of the student interns have later been hired for career-level employment by the agency with which

they completed their internship.

Strong support and excellent utilization of interns is a hallmark of the relationship between the UMD program and Arrowhead Regional Development Commission (ARDC), Metropolitan Interstate Committee (MIC), The City of Duluth, Western Lake Superior Sanitary District (WLSSD), Minnesota Pollution Control Agency (MPCA), Minnesota Department of Transportation (MNDOT), Duluth Housing and Redevelopment Authority (HRA), and numerous other state and local government units and agencies.

While many interns are placed in or near Northeastern Minnesota, a number of others have completed their internships in the Twin Cities area or with agencies in or near their home communities.

UMD program faculty

encourage strong emphasis on research experience by students. In many cases students assist with ongoing faculty research efforts, some of which are supported by outside grant support.

National contacts are maintained with the Urban Affairs Association (UAA). These ties provide opportunities for faculty interchange with colleagues throughout the nation and in Canada as well as providing an excellent forum for presentation of research papers at annual meetings and opportunities for publication in scholarly periodicals such as the *Journal of Urban Affairs*.

The UAA connection has also provided some excellent opportunities for placement of talented undergraduates in urban affairs and planning-related graduate programs in a variety of states and provinces.

Speech, language and hearing professions promising

Speech-language pathology and audiology is a profession that lets you be almost anything you want to be.

You can work with people or computers, in a research laboratory, a private clinic or a government agency.

You can work with language delayed children in a public school, or with elderly stroke patients in a large hospital or nursing home.

You can be an entrepreneur, developing and marketing new communication devices and tests, or developing your own private practice.

You can teach in a college or university, conduct research in a scientific laboratory, be an administrator, or work for state or federal agencies.

Perhaps best of all, you can establish a satisfying career combining several of these options.

What is the profession all about?

Speech-language pathology and audiology is concerned with evaluation, treatment and research into human communication and its disorders. Whichever aspects of the profession you may choose to follow, you have the satisfaction of knowing that what you are doing is either directly or indirectly helping the communicatively handicapped.

Speech-language pathologists treat such disorders as stuttering, delayed language development, aphasia, voice and articulation problems. New computer applications developed to assist those with severe communication disabilities, such as nonverbal individuals, are among the most exciting research

advances in the field.

Audiologists specialize in prevention, identification, assessment and rehabilitation of hearing disorders. They prescribe and sometimes dispense hearing aids, and instruct hearing impaired individuals in the use of the aid to gain the most help in day-to-day living. Audiologists also are involved in programs of hearing conservation, particularly in industry, and serve as consultants to government in such areas as noise abatement. Audiologists conduct research into environmental influences on hearing, new testing methods, and new devices.

The Job Outlook for the Future

While it is difficult to predict exactly what the job market will be in any profession in years to

come, we do know that a number of factors are influencing an increase in the demand for speech, language and hearing professionals.

P.L. 94-142 mandates that all handicapped children receive a free and appropriate public education. This is resulting in the employment of more speech, language and hearing professionals in public schools, as school districts seek to comply with the law.

The number of elderly people in the U.S. is increasing rapidly. This population is susceptible to strokes and other conditions such as Parkinson's disease which cause language or speech problems, as well as to age-related hearing loss.

The incidence of hearing impairment also is increasing among younger people, who are developing hearing losses due to environmental factors, particularly noise abuse. Increased smoking among women is causing a greater incidence of vocal fold cancer, resulting in serious communication problems. Accidents on motorbikes or cycles continue to cause head and neck injuries, which result in speech and language impairments. Many of these problems can be overcome through proper treatment.

An increased emphasis on independent lifestyles for

individuals with multiple handicaps will increase the need for research to develop technology for helping these people communicate more effectively.

As with many other professions, there is a geographic component to the job market. In some parts of the country, for example, there is an oversupply of speech-language pathologists while in other parts of the country, there is a desperate need for both speech-language pathologists and audiologists.

Salaries in speech-language pathology and audiology vary depending on the professional setting, responsibilities and location but most starting salaries are in the mid-teens in public schools and in the low 20's in some hospitals and government agencies. Increases also vary, depending on seniority and on whether the professional moves into supervision or administration, where salaries are in the \$30,000 range. Private practice, with its strong entrepreneurial component, also offers excellent possibilities for significant financial advancement and mobility. Private practice is the fastest growing section of the profession.

Speech to 15B

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Does the thought of international study and travel appeal to you? Does the opportunity to gain an understanding of foreign cultures and traditions interest you? If the answer is yes, READ ON and find out how you can **MAKE IT HAPPEN!**

There is a department on campus to aid you in transforming the dream of studying and traveling abroad into a reality, the International Education Office. Located in 104 Kirby Student Center, the office is a resource to students interested in pursuing a foreign study program. Here's a summary of UMD's international study programs and the services provided by the International Education Office.

Study in England

The Study in England program is in its seventh year and continues to be a popular program among undergraduate students throughout the Midwest. Students spend the year on the University of Birmingham (UB) campus. Birmingham is located just 110 miles northwest of London, less than a two hour ride on the popular British train system! Seven courses are offered each quarter - five taught by UMD faculty and two by UB faculty. All courses are offered for University of Minnesota credit.

Access to UB facilities such as the library, classrooms, cultural and recreational facilities are available to Study in England participants. Students reside either in a UB flat or in family bed-and-breakfast housing. Classes are held Monday-Thursday. There are plenty of opportunities for independent weekend and quarter break travel. Past participants have visited exotic areas of the world such as Israel, Turkey, USSR, and parts of Africa as well as exploring the British Isles and the Continent.

The 1987-88 program will remain at the 1986-87 price, \$6,192; that's comparable to an academic year on the UMD campus. The program fee includes tuition, meal allowance, housing, Student Guild fee, air transportation

from Minneapolis to England and return, program-sponsored field trips, and administrative costs. Any student with a cumulative GPA of 2.0 and at least 30 quarter credits is eligible to participate.

Study in Sweden

Picture yourself spending Spring Quarter in Vaxjo, a modern city of 65,000 located in southern Sweden about 260 miles from Stockholm. You'll live with a Swedish family while studying Swedish language and culture and exploring the roots of Swedish emigration. Students with no prior knowledge of Swedish will receive beginning language instruction; those who have prior Swedish language training will enroll in more advanced courses.

The 1986-87 program will be coordinated by UMD faculty member Walter Baemler. He and faculty from Vaxjo University will be course instructors. The program fee (estimated at just under \$3,000) includes tuition, fees, room and board, and some program-related travel. **OPEN TO ALL STUDENTS.**

"The gain (from foreign study) is more than an addition, it is a transformation."

Alfred North Whitehead
Scientist-Philosopher

Services

The International Education Office is open Monday-Friday, 8 a.m. to 4:30 p.m. Here you'll find files and resource materials on international education programs, work abroad opportunities, the international student ID, and Fulbright and other graduate grant opportunities. The office sponsors an International Brown Bag Series during the academic year. UMD students, faculty, and staff make presentations on a wide variety of topics at noon each Thursday. The STATESMAN and posters announce the location, presenter, and topic.

The experience of a lifetime... make it happen!



International education students show the great time they have studying out of the United States.

Supportive services aid students with unique needs

The Supportive Services Program (SSP) has three components to help students with unique needs have satisfying college experiences. The academic component offers assessment, advisement, counseling, and courses to students who traditionally have been at a disadvantage in higher education due to the need to develop specific academic skills. The Handicapped Student Services component of the program provides services to students who have disabilities, and the Black Student Program provides assistance and support for Black students.

Academic Services - The purpose of the academic components is to provide a positive, success-oriented environment in which students may work to improve specific academic skills. The

services offered include academic assessment, advisement and program planning, counseling, courses in skills development (reading, writing, mathematics, science, and study skills), and a course that emphasizes self-concept and human relationships.

These services are available to students referred by the UMD Admissions Office or by a faculty member, and to other students who seek help.

Handicapped Student Services - This component of the Supportive Services Program serves as a resource for on- and off-campus, assistance in the areas of health care, advising and counseling, placement, attendant care, transportation, equipment care, and similar concerns to persons with disabilities.

The Learning Disabilities

Program (LDP) provides guidance and advocacy to students encountering problems in achieving course and degree requirements because of a specific learning disability. In order to receive LDP assistance, students must be certified by the program.

Handicapped Student Services also provides information to students and faculty about their rights and responsibilities under Section 504 of the 1973 Rehabilitation Act.

Black Student Program

The Black student advisor cooperates with various on-campus offices such as admissions, financial aid, housing, and academic departments and units to assist students attending UMD. The advisor also works with the student organization Black Students for Progress.

You can't afford to overlook this



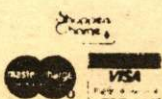
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HSL can get pretty technical

The Health Science Library (HSL) is organized as a departmental library within the Duluth Campus Library system, and functions as a special collection of print and non-print informational materials. It is one of 27 Resource Libraries of the Greater Midwest Regional Medical Library Network (GMRMLN), a component of the nation-wide Biomedical Communication Network established under the Medical Library Assistance Act of 1965 and funded through the National Library of Medicine (NLM), which coordinates Regional Medical Libraries in seven regions of the U.S. GMRMLN-Region 3 includes

10 states: Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, North Dakota, Ohio, South Dakota, and Wisconsin. As a GMRMLN Resource Library, the Health Science Library helps to achieve Region 3's goal to bring to health personnel the information they need for patient care, medical education and scientific research.

The HSL collection, totalling over 58,000 books and bound journal volumes, covers the basic and clinical sciences and their specialties. More than 398 current English language medical journals and 69 other serials in the biomedical sciences are regularly received. The primary objective of HSL's

resources and services is to support the curricular and research programs of the School of Medicine. HSL acquires library materials in the necessary subject areas that best meet these needs, as well as those of other users of medical and scientific information at UMD and the community. All HSL books and journals are available on open shelves.

HSL personnel are also in charge of collection development for the College of Science and Engineering, including the acquisition of books and journals for the satellite branches: Chemistry Library, Geology Library, and Physics Library. A professional library staff to interpret the above-mentioned HSL collection and Science and Engineering collections of the Main Library

and branches and to give bibliographic assistance as needed, is accessible from 8 a.m. to 5 p.m., Monday through Friday all year.

Public Services in the areas of Medicine, Engineering and Sciences that are available to UMD library clientele include Reference, MINITEX and Inter-Library Loans, and self-service photocopy machines. Computer searching of major medical databases such as MEDLINE, TOXLINE, CANCERLIFT, from NLM, BRS, etc. and databases in the engineering, pure and applied sciences, provide access to about 100 million journal citations.

HSL is housed in a \$1.90 million facility with 26,725 net square feet of space, which was finished in March 1978. It provides private rooms for

individual or group study to medical students on a reservation basis, has a stack capacity for 105,000 volumes and seating capacity for 175 mostly study tables and carrels, with additional index tables and lounge furniture for browsing or consultation of scientific reference books and current journals.

LOOKING FOR A BOOK
YOU CAN DRINK WITH
TEETH IN?



Get physical with HPER

This department presently provides undergraduate professional preparation in health education (B.A.S.) which leads to licensure for teaching in the State of Minnesota. A major in health or physical education (B.A.A.) provides opportunities in allied occupational areas, while minor degree programs are offered in recreation, health education and physical education. These degree programs are complimented by specialized course offerings which lead to coaching licensure or emergency

medical services training. Programs and degrees are available through regular day classes, Continuing Education and Extension and summer school. Further curricular development will emphasize community health programs, adapted physical education, elementary physical education and laboratory based physical education. The department is in the midst of a \$16 million expansion and renovation, which will update and expand the academic facilities as well as those available for students in their leisure time.

Freshman Honors seminars focus on diverse topics

Several hundred members of this year's freshman class have been invited to enroll in one of five new Freshman Honors Seminars. The courses will emphasize spirited discussion and essay writing and will focus on topics as diverse as "The Social Responsibility of Knowledge" to "Hero and Anti-Hero." Each class is limited to 15 to 20 students, so there will be a lot of interaction with the professor and with classmates.

Students were selected on the basis of their performance on the math and English college entrance exams (the

PSAT and ACT tests) and received informational booklets and reply cards in late June. It is possible that there will be openings in the Winter and Spring Quarter Seminars; if there are, the honors coordinators will place an announcement in the STATESMAN.

Most departments at UMD also offer senior honors programs to any of their majors who have done well and want the extra challenge of directed independent research leading to a significant final paper or project. Those who successfully

complete this work will graduate "with distinction" in their major.

Freshman and Sophomore honors possibilities are new to UMD and the situation is constantly growing and changing. Any student with high ability and motivation who wants to discuss the honors programs at UMD is encouraged to get in touch with Jonathan Conant in CLA, Joseph Gallian in CSE, or the dean's offices in CEHSP, SBE, and SFA.



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Oh no! Computers scare me to death

The mission of UMD Computing Services is to provide quality computer services to support the UMD academic program of instruction, research, and public service. To fulfill this mission UMD Computing Services operates three local, general-purpose systems and provides additional access to systems installed on the Twin Cities Campus. These computing resources are available for use by UMD students, faculty, and staff, and also units of government, nonprofit organizations and commercial enterprises in the Twin Ports area.

Installed on the UMD Campus are a Control Data Corporation Cyber 170/815 running under the NOS operating system and two Digital Equipment Corporation VAX 11/750

systems, one running the ULTRIX operating system and one running the VMS system. The three systems are accessible through a single Ethernet Local Area Network (UMDNET). The accessible Twin Cities Systems are an IBM 4341, a Cyber 170/845, a Cyber 174, a Cyber 205, and Cray Research Corporation CRAY 1 and CRAY 2 systems.

Students enrolled in classes requiring computing activity, will be provided with access to the appropriate computer system(s) at no charge to the student. Those needing access to computers for work not required as part of a class may purchase Microprocessor Access Cards which allow access to several large, well equipped microcomputer labs. These cards are a very popular means of taking advantage of

the wordprocessing capabilities of microcomputers for reports, compositions, term papers, etc.

Consultants that work with the computer users are located in all of the major computing labs which contain large concentrations of terminals and microcomputers for students, faculty and staff use. Computing Services' professional user services staff is available for more extensive consulting than can be provided by these lab consultants. Additionally, the UMD Statistical Center is available for high level statistical analysis consulting.

Staffing:

The Computing Services staff consists of 15 full-time equivalent managerial, supervisory, programming, user services, data entry, operations, and maintenance

personnel. Additionally, extensive use is made of student employees.

Languages:

FORTRAN, COBOL, PASCAL, BASIC, LISP, SNOBOL, C, MODULA2

Statistical Software:

SPSS, BMDP, SAS, MINITAB, S, GLIM, CART

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SIR (Scientific Information Retrieval - Data Base Management)

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Terminal and microprocessor maintenance service

Exam generation and scoring service

Microcomputer Purchase Discount Program

Monthly Newsletter

Location:

UMD Computing Services' main office is located in 178 MWAH. Drop by or call 726-7587 with questions or for more information.

Masters level work available at UMD

There are many graduate programs administered through the Graduate School at UMD. Masters level work is available in the following areas: Art, Biology, Business Administration, Chemistry, Communication Disorders, Education, Educational Psychology (Counseling), English, Geology, Music, and Physics. All University programs include Ancient Studies, Biochemistry, Pharmacology, and Physiology.

Graduate study at UMD incorporates the advantages of a small and personal campus along with the academic rigor and challenge of a major research institution. Graduate education is intended to provide the post baccalaureate student with advanced education and research experience in an atmosphere of freedom of inquiry. Emphasis is placed on scholarly, research and creative excellence. Most of the graduate faculty are active

in research or artistic and creative endeavors, and graduate students are encouraged to participate in such projects under faculty guidance and direction. Graduate students develop a close working relationship with those professors whose research and scholarly activity is in areas similar to the student's interests.

Many of the graduate programs on the UMD campus take advantage of the geographic, business, educational or cultural characteristics of the northern Minnesota region. At the same time, graduate programs on the UMD campus enjoy excellent national reputations.

Students interested in learning more about graduate offerings should contact the Director of Graduate Studies in the discipline of interest or the Graduate School Office at 431 Darland Administration Building.

Speech from 12B

Preparing for the Profession

The Certificate of Clinical Competence (CCC) of the American Speech-Language-Hearing Association (ASHA) is the only professional credential for speech-language pathologists and audiologists that is recognized in every state. Candidates for the CCC must have completed the Master's degree, nine months' supervised professional experience and must pass a national exam. Although certification is a voluntary process, many clinics, hospitals and other service facilities require their

employees to have ASHA certification. Thirty-six states also require that speech-language pathologists and audiologists be licensed.

Private practitioners who wish to be reimbursed by Medicare and Medicaid are required to hold the CCC or state licensure. The CCC is not required for scientific and academic careers unless the individuals wish to combine research and teaching with clinical practice. However, the Ph.D. is required for research or university teaching careers.

ASHA recommends that undergraduate preparation in human communication sciences and disorders should include a broad educational

experience in the liberal arts and sciences, and a strong foundation in oral and written communication skills, in addition to basic courses in speech-language pathology and audiology sciences and linguistics.

The UMD Communication Disorders Program offers both undergraduate and graduate degrees, and is accredited by ASHA.

Financial Aid

Information on undergraduate and graduate student financial assistance is available from the Department of Allied Clinical Health. Most students attending UMD qualify for some sort of student financial assistance.



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Study, learn, appreciate American Indian lifestyles, customs and traditions.

Courses offered in Liberal Education consist of oral history, traditional culture and Chippewa language through the American Indian Studies Department.

For more information contact Larry P. Aitken, Cina Hall 116 or call 726-8771.

Study the development of the Americas through the eyes of the first inhabitants of this land.

Welcome to new and returning students!

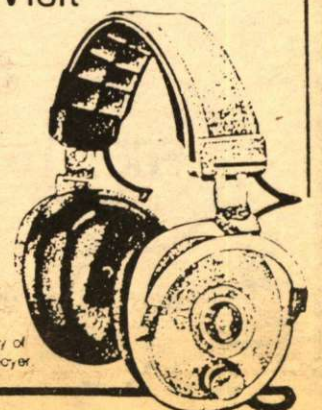
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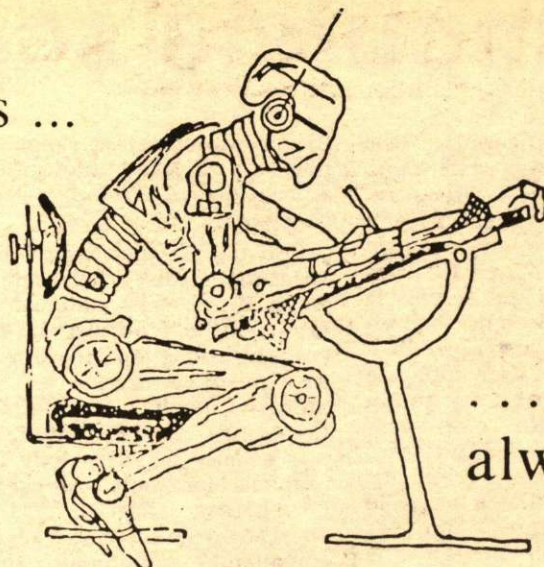
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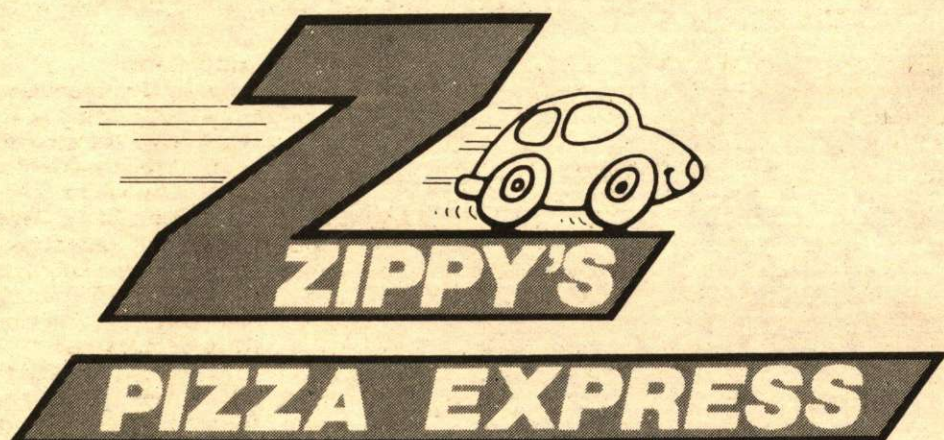
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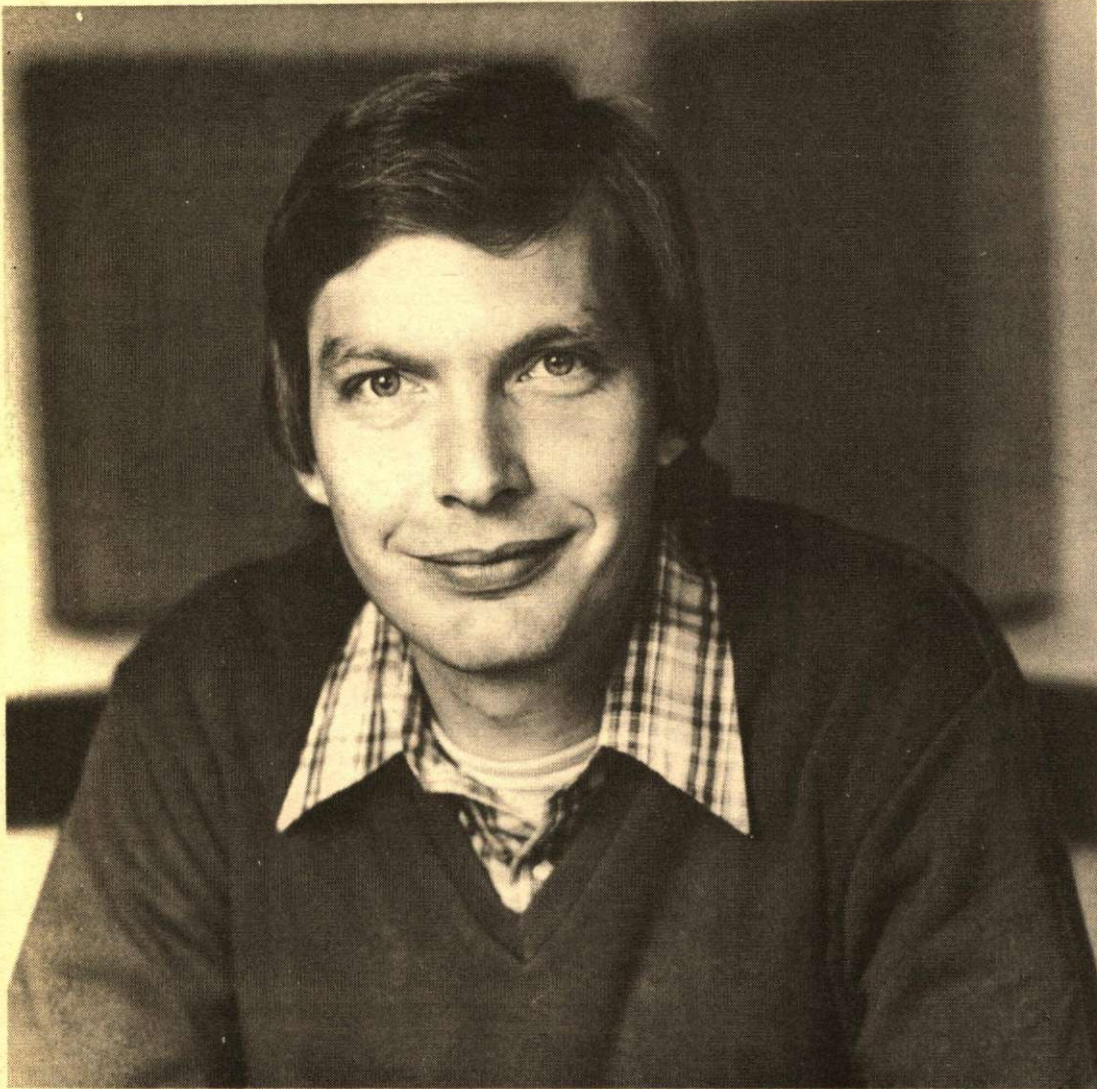


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Arts & Entertainment

C



Bob Edwards

KUMD is campus radio

This summer, KUMD changed to a new weekday programming format. KUMD now begins its broadcasting day at 5:30 a.m.—rather than the usual 6 a.m.—with *Morning Edition* featuring Washington host Bob Edwards and our local host. Edwards and the National Public Radio staff will offer the latest international and national news developments, the in-depth interviews, commentary, features, and reviews that put listeners in touch with the rest of the world and KUMD's local host will present weather information, Minnesota and Wisconsin news, and area events announcements.

KUMD's 'new' *Morning Edition* format is also where listeners will find most of our coverage of local issues. Short reports and features produced by the staff members will be presented at this time along with KUMD's locally produced art modules which are funded in part by a grant from the Arrowhead Regional Arts Council.

An example of new locally produced programming which will air during *Morning Edition* is "For the Birds."

Listen at 7:35 a.m., Monday, Wednesday, and Friday, for these reports on our feathered friends in the Northland by Laura Erickson, past president of the Duluth Audubon Society.

Starting at 8 a.m., after 2½ hours of news, information, and weather, KUMD will present eight full hours of uninterrupted musical programming. Gone is the hour of public affairs between noon and 1 p.m. Each Wednesday the music is interrupted for only one hour at 10 a.m. while KUMD brings its listeners *Talkline*, a locally produced call-in program featuring university and community experts.

At 4 p.m. KUMD joins National Public Radio for *All Things Considered* and at 6 p.m. we return to our regular evening programming which offers a wide variety of musical shows.

KUMD hopes that these modifications will result in greater listening pleasure and will encourage more people to try KUMD for all their music and information needs.

If you like to play then you'll love MPAC

Exciting, thought provoking, and funny are all words that describe the upcoming fall season at the Marshall Performing Arts Center (MPAC) which houses the UMD Theatre. A musical about the lives of a pioneer woman and her six daughters, "Gullters," begins the season and runs October 15-26. The action of the play combined with music shows the lot of these women through girlhood, marriage, childbirth, and death.

Running December 9-14, "Homesteaders" takes place in Alaska, and tells the story of five troubled people who eventually come to terms with themselves and their pasts.

From February 1 through 8, "Suddenly Last Summer" by Tennessee Williams continues the season. Anne Meacham, the only witness to her cousin's shocking death, is encouraged by her family to deny what she saw.

A comedy, "The Real Thing," runs from March 25 to April 4. Henry Boot, a famous playwright, is convinced by his second wife to rewrite her play which combines a political cause with theatre.

A classic by William Shakespeare, "As You Like It," rounds out the season and runs May 6-10.

Both UMD Theatre and the summer theatre company, Minnesota Repertory Theatre, are fortunate to be located in

the Marshall Performing Arts Center with its two performance areas. Semicircular seating, no seat more than nine rows from the front of the stage, three hydraulic stage lifts, computerized lighting control, state of the art sound facilities, and a new computerized box office are among the many advantages the center offers.

In addition, there are fully equipped scene, prop, and costume shops where the creation of all materials used on stage takes place. For more intimate or experimental productions there is the 100 seat Dudley Experimental Theatre which offers a different atmosphere than the main stage.

The talented and experienced staff which guides the production of each show invites everyone to become a part of this exciting theatre season either as a cast member, crew member, or as a part of the audience. Auditions will be held during the first days of classes; watch the theatre board for more details. For ticket information, stop by the box office soon since the best seats sell out first. Tickets for UMD students are only \$2.50 for any show. Don't miss any part of this season's exciting line-up of shows!

Main Street Store in \$100,000 upgrade process

An all-new, expanded university bookstore, the Main Street Store, will open its doors in time for fall quarter.

"It's going to be more than a bookstore," said Joe Michela, UMD Director of Auxiliary Services. "We're currently going through renovations reflecting some changes. What was once recognized simply as a place to purchase textbooks will feature a new name, new look and the type of full-service selection accompanying our plans."

Extensive research and planning proceeded the \$100,000 bookstore renovation project, assuring one of the most convenient and modern campus stores in the country. The new university-operated store is expected to open in September.

The Main Street Store will be housed in the area currently under remodeling on the first level of the Kirby Student Center. Although in the same location occupied by the former bookstore, university officials state that you probably will not recognize the outlet after the walls are removed and a new store front is completed. Inside, expanded retail space, larger aisles, and additional check-out areas will greet students.

"The additional square footage provided by remodeling will offer shoppers a larger selection and a more pleasant shopping experience," remarked Main Street Store Manager Jeff Romano.

One of the highlighted

additions planned is a state of the art computer department with hands-on software demonstrations featuring the latest available equipment. Expanded gift, art supply, school supply and film processing departments will also be included. Additional space will be utilized for an extensive selection of new and used textbooks.

"We're expanding into a truly full-service operation designed specifically to offer more and better consumer items to UMD students, staff and faculty,"

said Romano.

Bookstore merchandise is temporarily being sold in the Bull Pub on the second floor of Kirby Student Center until completion of the new facility. Main Street Store plans do not affect the operations of the Bulldog Shop clothing store or the Second Edition paperback bookstore. The Main Street Store will be open 8 a.m. to 4:30 p.m., Monday through Friday with extended hours during the first week of each quarter.



Photo • Curt Carlson

Chris Hanzlik happily awaits his next patron at the Main Street Store.

KPB--Entertainment is their business

In addition to the regularly scheduled programs sponsored by KPB's six committees, there are several fun-filled weeks to enjoy during the year. For example, Homecoming Week may mean a parade and other exciting events before the big game. "Penguins" overtake the campus Winter Carnival Week and usher in a week filled with games and events such as snowshoe races, snow volleyball, ice sculpting contests, banana hunts, the Silver Broom Broomball Tourney and lots more.

As well as providing entertainment, KPB wants to get your input and ideas. KPB is a student-run organization made up of volunteers. Every student can get involved by joining one or more of the six committees: Concerts, Films, Spotlight, Special Events, Lectures, and Publicity. Committees will be organized

during the first few weeks of the school year and will be open to new members throughout the year. As a committee member, you get the chance to select and plan events, publicize the events and help to make them a success. Not only will your experiences with KPB provide a chance to meet people and have fun, it will also provide experience that can't always be found in the classroom. Marketing, effective communication, leadership and a knowledge of the entertainment industry are just a few of the skills that past volunteers attribute to their time spent with KPB.

It's easy to join our organization. Just stop by our office in the Student Activities Center across from the Kirby Information Desk or call 726-7162 for more information. Also, check the weekly STATESMAN ad and the easel

outside the office for a schedule of events.

Enjoy an outdoor concert or spend an evening with a up-and-coming star. Take in a movie on a Friday night or showcase your own talent at Open Stage in the Bull Pub. Kirby Program Board (KPB) offers you a chance to do all these things and much, much more during the course of a school year at UMD. After all, at KPB, entertainment is our business.

Concerts, Lectures, Spotlight Shows, Films and Special Events are what KPB has to offer. As part of the lecture program during the past two years at UMD, students had the opportunity to hear Dr. Joyce Brothers speak on "Success is a State of Mind." Also featured were John Malloy, author of *Dress for Success* and Dr. Timothy Leary, the famed psychologist of the '60s.

KPB Spotlight is a showcase for the stars of the future. Some of the great stars of today got their start on the college circuit. What exactly is a Spotlight Show? It is a chance to relax with friends in an informal atmosphere and listen to a musical group or a solo musician perform, watch a comedy or magic act or display your own talent along with other students by participating in Open Stage.

The KPB Concerts Committee sponsors larger events with both future stars and some that are already well known. KPB's shows during the last few years have included such acts as Franken and Davis from *Saturday Night Live*, Sonny Rollins, the well-known jazz saxophonist, the Lamont Cranston Band and a week long exposition of Reggae music.

Are you free on a Friday or

Sunday night? Check out the KPB weekly movie schedule. Blockbusters, classics and foreign films can all be found at UMD sometime during the year. The KPB Films Committee also sponsors occasional Horror Nights and Movie Marathons for hard-core moviegoers who like to make a night of it.

KPB Special Events at UMD include a little bit of everything. How about a Comedy Show-down featuring comedians from both coasts? A hypnotist? A Chinese Theatre production? A fashion show? An art fair? A taste of the fine arts? These are just a few of the programs that KPB organized last year, much to the delight of the UMD students.

KIRBY PROGRAM BOARD

presents...

Entertainment for UMD!

CONCERTS
FILMS
SPECIAL EVENTS
LECTURES
SPOTLIGHT
PUBLICITY

Look for further information throughout the school year about events on campus.

Welcome to UMD

Join us for 10 fun-filled days of events

**Sunday, September 7
to
Wednesday, September 17**

Sunday, Sept. 7 - Harbor Cruise

Monday, Sept. 8 - Playfair

Wednesday, Sept. 10 - Multimedia Lecture Presentation

"Remember the Beatles" by Joe Gallian and Tom Wegren

Thursday, Sept. 11 - Comedy with Mark Pitta

Friday, Sept. 12 - Movie

Saturday, Sept. 13 - Entertainment on campus

Sunday, Sept. 14 - Movie

Tuesday, Sept. 16 - Johnny Holm's Traveling Fun Show

Wednesday, Sept. 17 - Outdoor Program presents a lecture by Will Steger on his trip to the North Pole

Kirby Student Center is for you

What is a Student Center?

"The Student Center is the center of activity within the university. It is for all members of the 'University Family'—students, staff, faculty, administration, alumni and guests. It is not just a building; it is an organization and a program. Together they represent a well-considered plan for the community life of a university."

"As the 'living room' of the university, the Student Center provides the services, conveniences, and amenities that the members of the 'University family' need in their daily life on campus, and for getting to know and understand one another through informal associations outside the classroom."

Kirby Student Center, our "living room," is financed by student service fees and revenues from conferences and institutes.

Kirby Student Center opened in 1956 and was named for Stephen R. Kirby's generous donation of \$400,000. Stephen R. Kirby was a Duluth and Iron Range pioneer in industry, business and finance. "Our youth are our richest asset" is a quotation from Mr. Kirby which expresses the basis for this major contribution.

The Kirby Student Center is a well planned program providing services for the campus community and their guests. Its purpose is to provide the "University family" with events, activities (often called programs), facilities, and services to satisfy a variety of out-of-classroom needs and tastes.

In addition to the services such as food, books, rooms, recreation and lounges, the Student Center is a "living classroom" for students to learn and exercise leadership skills, personal growth, and lifetime leisure skills.

The Student Center is a people-oriented enterprise where everyone devotes a professional effort to serving the campus, and furthering the educational mission of the University.

If Kirby is open, so is the Info Desk! This is the place to find out almost anything, get local maps, telephone numbers, bus schedules, local and major city newspapers, cash checks, buy postcards, typing paper, or envelopes and check for a lost item. The Info Desk will try to answer any question or help find the answer—call them at 726-7163.

The Cafe/Deli, located on the second floor of Kirby, offers a variety of food from deli items to Mexican fare, a salad bar, grill items, a dairy counter, fresh baked goodies and much more. The catering service can accommodate simple refreshments to picnic items to complete banquet meals. Given a day's notice, UMD Catering Service will prepare a birthday cake for a roommate, friend, or that special someone.

The Bulldog Shop, as the official outlet of UMD Sportswear, carries clothing for the entire family. Among the many items available are t-shirts, sweatshirts, sweatpants and other style items. The Bulldog Shop also carries a variety of gift items such as UMD glasses, mugs, pins, and even UMD Cabbage Patch doll outfits. The shop is open to the public and is a great place to



Kirby Information Desk

Photo • Curt Carlson



Kirby Cafe/Deli

Photo • Curt Carlson



Second Edition Bookstore

Photo • Curt Carlson

buy gifts.

The Main Street Store (formerly called the UMD Bookstore) stocks a complete selection of new and used books, school, office and art supplies, sundry drugs, greeting cards, calculators, computers, and a selection of gift items.

For a change of pace for students, faculty, and staff, the Second Edition is a trade bookstore that carries leisure reading material and additional reading material suggested by professors. The store is known for its large selection of children's and gift books.

If the Second Edition doesn't carry a particular book, a special order service is available. The store is open to the public and carries magazines and postage stamps as well.

Still looking for a gift or want to shop some more? Check out the latest albums, tapes and stereo accessories at the SA Record Store, which is operated by the UMD Student Association.

Five pocket billiard tables and a dozen video machines await you in the basement of Kirby Student Center at the Games and Outing Center.

Cards, chess and backgammon are available for check-out FREE with student I.D.

Interested in camping, hiking, or skiing? The Outing Center has a wide variety of equipment available for rent at reasonable rates.

Kirby Ticket Office offers Duluth Arena-Auditorium event tickets, money orders and notary public services for a small fee, Kirby Program Board event tickets, and Greyhound Bus tickets. (A special service from Greyhound provides UMD students a bus to Minneapolis-St. Paul from Kirby Circle on Friday afternoons and returns

to campus on Sunday evenings during the academic year.) Registration for UMD's Outdoor Program trips, Recreational Sports and aerobic classes are handled here as well as International Student mailbox rentals.

Files of travel brochures, Outdoor Program activity information, special order equipment and clothing catalogs, maps and trip information are available through the Outdoor Program Office and Lounge located in the Student Activities Center (across from the Information Desk).

The Student Activities Center is the second home and communications center for members of over 150 student organizations. Students interested in getting involved can receive more information by stopping in the center and talking with staff.

Students have an active role in administering Kirby Student Center through the Kirby Policy Board and the Kirby Student Center Program Board.

The Kirby Policy Board advises the Director of the Center on matters of policy and building operation. The Kirby Program Board is responsible for sponsoring educational, recreational, social, and cultural programs for all members of the university community. The Program Board's various committees, advised by a professional staff, plan films, concerts, lectures, indoor and outdoor program events, all-campus weeks, and much more.

The Music Listening Center located in the First Floor Lounge is a free service for students. Students, in exchange for a student I.D., receive a set of headphones they plug into one of the six units located in the Lounge, after making a tape or radio selection with the Music Listening attendant. There are over 1,000 tapes to choose from and students can bring their own tapes or albums to listen to.

Ride boards, sale item boards, telephones, three television lounges, rooms for meetings are other services available for students, faculty and staff.

What do people who use these services say about the Student Center?

It's a community center—the social and cultural heart of the campus, drawing together under one roof those facilities and services that give everyone a reason for coming to Kirby.

—Providing for education of tastes by exposure (social, mental, emotional, physical) in environments which promote the appetite for participation.

—Where people can come together to enjoy each other.

—Where there are a multitude of services and conveniences which make the day go easier.

—Where it is natural to stop and see art work, listen to a concert, read a book, or talk about ideas.

—Where having fun and making friends comes easily.

—Where students by the thousands can engage in the most important thing in the world—getting to know and understand people.

Kirby Student Center...a place to be someone.

University Housing provides more than just housing

University Housing is a lot more than merely a shelter that is safe and comfortable. The residence halls and apartments, where over 2,200 students reside, are alive with activity and should offer an exciting and unique living experience--people living, growing and sharing many experiences. University Housing consists of professional and paraprofessional staff who encourage and assist students in adjusting to the university community, help residents deal with their concerns or problems, and communicate information.

One of the first Housing staff members the resident will meet is the Resident Advisor (RA). The RA is a student staff member and university representative who lives in the residential area. Their efforts are focused on developing a living environment that is conducive to individual academic pursuits and personal growth. The RAs are upperclassmen who are familiar with the university and who have been selected based upon their level of motivation and ability to serve as resource people, peer counselors, disciplinarians, and role models. Once the RA team is selected they attend extensive spring and fall training programs in preparation for the arrival of the residents.

Supervising and setting the direction for the RA teams are the the Assistant Director of Housing-Residence Halls and the Assistant Director of Housing-Apartments. The

Assistant Directors have had professional training in student development and extensive experience in university Housing. Their belief is that learning experienced by the student who lives in a university residence hall or apartment is an integral part of the total learning she/he experiences as a UMD student.

The primary goal of university Housing is to facilitate a living/learning environment characterized by self-responsibility, mutual respect, and mutual consideration. University Housing staff encourage residents to make the most out of their college experience while at the same time adhering to the University/Housing rules and/or regulations. Residents are adults and are expected to take personal responsibility for their behavior. University/Housing rules and regulations are outlined in the Resident Handbook which is given out at the time of check-in.

Once again, University Housing can and does serve and educational purpose by complementing and enriching what is learned in formal classroom instruction. A great many opportunities exist for residents to get involved in campus life--get involved.

Alcohol

The possession and consumption of alcoholic beverages, regardless of age, is **NOT PERMITTED IN THE RESIDENCE HALLS** (Burntside, Griggs, Lake Superior,

Torrance, and Vermillion halls).

The possession and consumption of alcoholic beverages by residents of legal drinking age **is permitted in the apartments** (Capehart, Junction, Oakland, Stadium and Village apartments). Alcoholic beverages are allowed only in the apartments of residents and **not** in public areas (lounges, hallways, University grounds, etc.).

Assignments

Students are assigned to a living area based upon the date the application/contract was received by the Housing Office and the preferences (living area, specific roommate, smoking/nonsmoking, etc.) noted in the application/contract. While every effort is made to comply with student preferences, the Housing Office makes assignments of space in accordance with availability and is unable to guarantee the availability of a specific facility or room type. Specific assignments for University housing for the academic year are provided at Orientation check-in.

A resident may request an assignment change to another room or apartment during the academic year if the request is supported by a justifiable reason. No assignment changes will be processed prior to September 22. Procedures for requesting an assignment change are outlined in the Resident Handbook which is given to each resident at the time of check-in to University housing.

Hunger pains cured by UMD Food Service

There's McDonald's, there's Burger King, there's Wendy's, there's Perkins'. And then there's UMD Food Service.

UMD Food Service, totally self-supporting, is perhaps the most convenient and inexpensive way for students, faculty, and staff, as well as their guests, to cease those hunger pains that strike throughout the day.

Three different areas provide food service to the UMD community: the Residence Hall Dining Center (RHDC), Kirby Cafe/Deli, and Upstairs Kirby.

The RHDC mainly caters to

dormitory students although anyone is welcome. In an all-you-can-eat type atmosphere, dormitory students purchase a meal plan each quarter ranging from 10-19 meals per week. Students are admitted upon presentation of their meal ticket. The general public is more than welcome at the RHDC on a flat rate basis. Prices for the 1985-86 school year will be \$3.20 for breakfast, \$3.95 for lunch, \$5.50 for dinner, and \$4.50 for Saturday

Food to 5C



Photo • Curt Carlson

Joyce LaFavor from UMD Food Service sits at the till making sure no one without shoes or a shirt enters.

ATTENTION FRESHMEN!



Become involved in Student Government:

Student Association

We need three freshman representatives to represent the Freshman Class on the UMDSA Congress. Freshman Elections will be held two weeks after the first Congress meeting. If you are interested stop in the S.A. office (across from Kirby Desk) and ask for more details, or call us: 726-7178.

Student Government Working For You

From a "wreck" to Rec Sports

Have you ever tried to visit the sports facilities on campus? The most popular games this summer have been Maze Running, closely followed by Bulldozer Tag, and Guess Which Door is the Gym Door.

The wreck is the construction of the \$16 million Physical Education, Recreational Sports, Athletics facilities. In the planning stages for 10 years, the project is now underway with completion expected in the winter of 1987.

Recreational Sports will be utilizing the new and remodeled facilities. Rec Sports has four program areas: **Intramural Sports**, the organized or structured competition in team, dual, and individual sports, **Informal Sports**, self-structured sport, game and fitness such as swimming, jogging, pick-up basketball, aerobic exercise, fitness training, tennis, weight training by your design and at your schedule; **Club Sports**, people who organize with an interest in a sport, such as soccer, skiing or scuba diving, to improve skills, to compete

against other enthusiasts, to socialize or just to have fun in the sport of their choice; and **Outdoor Programs**, the programming area of Rec Sports that addresses the outdoor/wilderness skills and experiences with day trips, extended trips, nature walks, backpacking, bicycling, rock climbing, canoeing, kayaking and many other activities that take advantage of our great northern environment.

Now you know why we need the new facilities. Added to Rec sports are the excellent men's and women's athletic programs and a fine Health, Physical Education and Recreation academic department. Each of these departments anxiously awaits the completion and occupation of the facilities.

The wreck will develop into a completely remodeled Physical Education Building with new locker rooms, offices, classrooms, weight training areas, and improved pool, training and equipment rooms. The basketball areas will have new floors, lighting and seats.

Students will be able to study and relax in a student lounge in the lobby.

The Fieldhouse will receive a new floor, reorganized court space, a climbing wall and much needed equipment storage. Spectator seats may be added along one wall.

Attached to the Physical Education Building will be an indoor Olympic-sized ice rink in the multi-purpose facility. Many winter ice sports such as skating, broomball and ice hockey can now be enjoyed on campus. When not covered with ice, the facility will accommodate many indoor and outdoor sports in Spring and Fall. Overlooking the playing surface, a suspended jogging track will allow fitness buffs to run while they watch the activities below.

These are exciting times for both us and you. While we patiently adjust to the construction, somewhat modified programs will carry on, but tomorrow the wreck will be Rec!

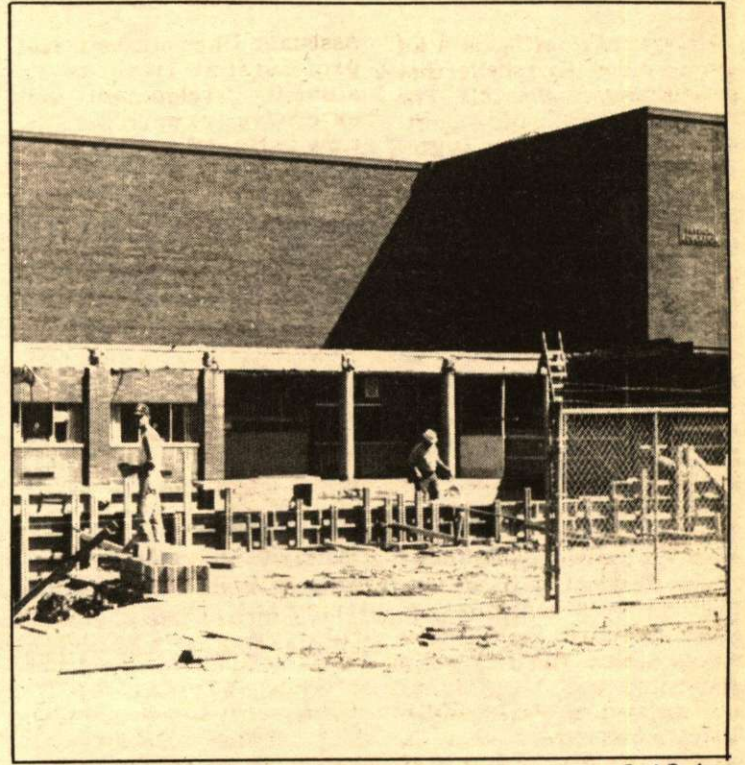


Photo • Curt Carlson

Construction is right on schedule to turn what now is a wreck into an exciting new modern facility

Food from 4C

and Sunday brunch. The dining center during the regular school term is open from 7 a.m. to 9:30 a.m. for breakfast; 11 a.m. to 1:30 p.m. for lunch; and 4 p.m. to 6:30 p.m. for dinner. Weekend hours for brunch are 10 a.m. to 1 p.m. and for dinner, 4 p.m. to 5:30 p.m.

Kirby Cafe/Deli, located on the second floor of the Kirby Student Center, is the major eating and social gathering area for students, faculty, staff, and their guests. Friendly

service, convenient, and moderately priced food are three trademarks of the Cafe/Deli, which services upwards of 4,000 people daily during the regular school year. The Cafe/Deli offers a wide variety of food. Fresh bakery, Grade A large eggs, muffin melts, bacon, and pancakes are among the delicious choices patrons have for breakfast, while hamburgers, cheeseburgers, a 24-item salad bar, chicken strips, tacos, and a variety of special sandwiches are among the Cafe/Deli's specialties for lunch. All grill items, the salad bar, with the

addition of Kirby's own pizza are available for dinner. All items in the Kirby Cafe/Deli are on an ala carte basis. During the regular school year the Kirby Cafe/Deli is open from 7 a.m. to 10 p.m., Monday-Thursday; 7 a.m. to 4:30 p.m. on Friday; and from 4 p.m. to 10 p.m. on Sunday.

Opened in November 1985, Upstairs Kirby is the latest addition to the UMD Food Service family. Located on the third floor of Kirby Student Center, Upstairs Kirby offers an alternative menu geared more toward faculty and staff. That is certainly not to say, however,

that students are not welcome. Open just from 11 a.m. to 2 p.m., Monday-Friday, Upstairs Kirby serves such delicious items as Beef Provencale, Lasagna, Fried Rice with Egg Rolls, a Bavarian Sandwich on Jewish Rye, and Egg Salad Croissants. At Upstairs Kirby, patrons have the unique opportunity to dine on the deck overlooking scenic Lake Superior.

"We're here as a service to students, faculty, and staff," said Harry Kase, Associate Director of Food and Vending Services. "We work very hard at providing the best quality food

at the lowest possible costs. Students must remember, however, that we get no funding from anyone. We are totally self-supporting."

"I'd like to take this opportunity to wish the incoming students the best of luck in all their endeavors during the 1986-87 school year, and if ever students have any suggestions on how we can better our service, I would encourage them to drop by the Food Service office and see me anytime."



University of Minnesota
Duluth

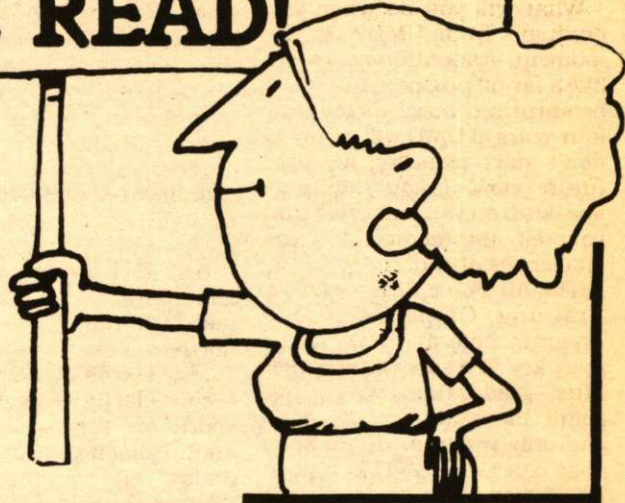
OFFICIALS!!!

Have the time of your life working as an Intramural official. We have positions available in football, basketball and volleyball fall quarter. Sign up now! Potential for year long work! Work-study not necessary but encouraged.

Inquire at the Recreational Sports Office in Kirby Student Center or the Fieldhouse.



**IMPORTANT NOTICE:
PLEASE READ!**



**Payment Instructions - Tuition and Fees
University of Minnesota, Duluth
1986-87**

A fee statement is issued at the time of registration. This fee statement is a bill and indicates the amount due and payment due date. Fee statements will be issued for registration changes and will reflect only the increase or decrease in the amount due. **REMEMBER THAT EACH FEE STATEMENT HAS ITS OWN DUE DATE.** Failure to make payment by the due date(s) will incur a late payment fee. Later fee statements do not extend the date(s) on earlier fee statements.
Avoid additional fees by paying tuition and fees by the due date(s) on the fee statements.

INSTALLMENT OPTION PLAN - You have the option of paying 50% (or more) of your tuition and fees by the due date(s) on you fee statement(s). You will be billed at the end of the second week of school for the balance of all tuition and fees, plus a \$10 Installment fee. This amount will be due at the end of the fifth week of school.

This installment plan, in effect, establishes two fee payment due dates for each fee statement:

- 1. The original due date on each fee statement.
- 2. The end of the fifth week of school.

LATE PAYMENT FEES - A late payment fee of \$10 will be assessed for missing the due date(s) on your fee statement(s). A late payment fee of \$20 will be assessed for missing the payment due date of the end of the fifth week of school.

NOTE:
If you have made no payment of tuition and fees by the end of the second week of school, you will be placed on the installment plan. You will be billed for your tuition and fees plus a \$10 late payment fee and a \$10 installment fee. These fees will be due by the end of the fifth week of school.

BILLING ADDRESS: Billing statements will be sent to the address which appears on the last fee statement. All address changes or corrections should be made through the Registrar's Office immediately. Students are held responsible for having a correct address on file.

IMPORTANT: Students are held responsible for full tuition and fees for all classes which appear on their registration unless they are officially cancelled. **FAILURE TO ATTEND CLASS DOES NOT CONSTITUTE CANCELLATION.**

"RIGHT TO PRIVACY" ACTS - Federal and state legislation regulates release of information about a student to "third parties" without their permission. Students may sign a form allowing release of information regarding their tuition account at the Student Accounts Receivable Office located at window 15 or 16 Darland Administration Building.

Use the table below for a breakdown of fees billed if you pay in installment and/or pay late:

IF YOU:	THEN YOU ALSO PAY:
Pay 1st installment by the due date(s) on the fee statement(s) Pay 2nd installment by the end of the second week of school	
Pay 1st installment by the due date(s) on the fee statement(s) Pay 2nd installment by the end of the fifth week of school	\$10
DO NOT pay 1st installment by the due date(s) on the fee statement(s) Pay total amount due by end of the fifth week of school	\$20
Pay 1st installment by the due date(s) on the fee statement(s) DO NOT pay the 2nd installment by the end of the fifth week of school	\$30
DO NOT pay 1st installment by the due date(s) on the fee statement(s) DO NOT pay the total amount due by the end of the fifth week of school	\$40

Pay by mail or in person:
Cashier's Office (window or drop box)
Darland Administration Building
For further information contact:
Student Accounts Receivable
window 15 or 16 Darland Administration Building, 218-726-7190

AFROTC can guarantee a good paying job

What will you do when you graduate from UMD? At the moment, graduation may seem like a far-off prospect, but you'd be surprised how quickly your four years at UMD will go. If you don't start planning for your future now, graduation may sneak up on you and you'll find yourself unprepared for the challenges ahead.

The Air Force Reserve Office Training Corps (AFROTC) program here at UMD can be your key to a successful career after graduating. When you fulfill the requirements, it is the only program on campus that can GUARANTEE a good paying job upon graduation.

The AFROTC program leads to a commission as an officer in the United States Air Force. The Air Force needs professional officers to meet the challenges of our complex and highly technical world. There are more than 100 different career areas available in the Air Force with starting salaries comparable to most civilian companies. Our newly commissioned young officers fly the world's most sophisticated airplanes, operate high speed computers, work in research and development, and specialize in fields such as law and medicine. And there are many opportunities in non-technical areas for liberal arts graduates.

As a freshman, enrollment is very easy. Simply register for one of the freshman Aerospace Studies courses when you register for your other fall classes. You incur absolutely no obligation to the Air Force by signing up for one of these courses. All AFROTC courses are fully accredited, meaning

that they count as credits toward graduation, whether you decide to continue in AFROTC or not.

The AFROTC program offers

Distinctive Features

-The only campus program leading to a commission as an Air Force officer

-All courses taught in one location

-All course books provided

-Scholarships available to qualified students

-\$100 per month personal expense allowance during your last two years of AFROTC (non scholarship cadets)

-Limited flight training for pilot applicants between sophomore/junior year

-Four-year and two-year programs available

-Receive liberal arts credits for all AFROTC courses

-Travel to U.S. Air Force bases throughout the United States

-Receive regular counseling on academic progress

-Participate in numerous parties and other social events

-AFROTC faculty consists exclusively of active duty Air Force officers

many distinctive features which you will not find in other programs at UMD. Consider the following:

Benefits

Become a Second Lieutenant with full pay and allowances

No worry over where classes are conducted

Decreases your overall college expenses

Pays for full tuition, book and lab fees, and \$100 per month

Provides you that "extra something," and it is TAX FREE

Flight training is free. You will be able to fly solo

Flexible option geared to your needs

No credit overload to meet degree requirements

Travel on military aircraft. Tour Air Force bases at virtually no cost

You get personalized feedback on your progress in the program

Make new friends

Benefit from their experience

Check out AFROTC this fall.



AFROTC cadets from UMD pose in front of the Alamo in San Antonio, Texas during a January 1986 base visit to Kelly Air Force Base. At least three different base visits are planned each year for UMD cadets.

Campus Police--the enforcers

The Campus Police may be a part of your education here at UMD. We provide a number of services for the university community such as lock-outs, emergency transportation, medical assistance, handling of complaints and providing campus security. We are staffed 24 hours a day during the school year, and if problems develop, we are able to respond quickly. We strongly encourage each of you to make use of the Campus Police by reporting all incidents that may occur, such as auto accidents, theft, vandalism or lost items.

We are also in charge of all

campus parking and enforcement. Basically, there is no free parking on our campus. Decals are sold just before each quarter begins and all campus parking is consistently patrolled. If you have a car on campus you will need to purchase a decal, use the pay enter lots, or pay at a meter. Please follow the instructions at the entrances to the campus as well as at each lot.

If you need any help or have any questions, we are located in Room 287 Darland Administration Building. Our number is 726-7000.

RECREATIONAL SPORTS

"a sport for everyone"

Intramural Sports (Fall)

Flag Football
Soccer
Golf
Bowling
Volleyball
Racquetball
Tennis
Cross Country
Ultimate Frisbee
Floor Hockey
Softball

Informal Sports

Weight Training
Fitness Training and Testing
Aerobic Exercise
Tennis
Jogging
Swimming
Basketball

Outdoor Programs

Backpacking
Hiking
Canoeing
Climbing
Kayaking
Day Trips
Extended Trips
Educational Programs

Club Sports

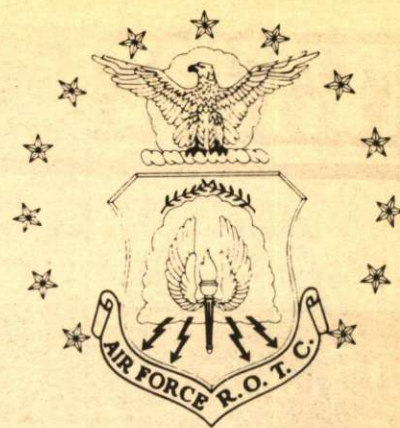
Soccer
Rugby
Frisbee
Volleyball
Weightlifting
Skiing (Cross Country & Alpine)
Scuba
Boomerang



University of Minnesota
Duluth

AIR FORCE ROTC

Welcomes New Students



WOMEN. YOU'RE EQUAL IN THE AIR FORCE.

Women start out on the same footing as men in Air Force ROTC. You can earn a scholarship that pays college expenses plus \$100 a month. The training qualifies you for executive responsibility on your very first assignment. So do yourself a favor. Check into AFROTC today.

AIR FORCE
ROTC



THE ROAD TO A COLLEGE DEGREE IS EXPENSIVE

AIR FORCE ROTC CAN PAVE THE WAY

There are a lot of scary stories about the cost of college education these days. Many high school students aren't planning to attend college because they don't have the money. BUT WAIT! Air Force ROTC can help. With our scholarship programs, we will pay for your college tuition, books, along with certain fees AND pay you \$100 per month for living expenses.

After you receive your degree you'll be eligible for a commission as an Air Force officer. If you can qualify, Air Force ROTC can mean a college degree and a brighter future for you. Find out more. For your country and yourself, make Air Force ROTC a part of your plans. Contact:

AIR FORCE

ROTC

COLLEGE BOUND VETERANS

Cash in your military experience with Air Force ROTC. You'll get credit for the first two years of ROTC and receive your veterans entitlements while you earn a commission. You may be eligible for a scholarship that pays \$100 a month plus certain college costs. Get the facts now.

AIR FORCE
ROTC

THE ROAD TO A COLLEGE DEGREE IS EXPENSIVE

Are you putting off college because it's too expensive? Air Force ROTC can help. Our scholarships pay for tuition, books and fees AND \$100 a month for living expenses. After graduation, you'll be eligible for an Air Force commission. Make AFROTC part of your plans. Contact:

AIR FORCE
ROTC



WHAT TO DO AFTER COLLEGE...

is a question a lot of young people in high school and college are asking. Then, even if you get the finest college degree, where can you use it meaningfully?

Perhaps the answer lies in becoming an Air Force officer through Air Force ROTC. We have many different career areas in which specialists of all kinds are needed. And as an Air Force commissioned officer you can have unequalled opportunity for leadership and management experience, plus an excellent starting salary and benefits package.

Consider Air Force ROTC as a gateway to a great way of life for you. Find out about the benefits of a four, three or two-year scholarship that pays \$100 a month, tuition, book costs and lab and incidental fees. Couple that with what will be waiting after graduation, and you have the answer to what you've been looking for.

AIR FORCE

ROTC

SCIENCE AND ENGINEERING MAJORS: TAKE OUT INSURANCE NOW

Want to insure your science and engineering degree will really be used after graduation? The Air Force is the place to look. We'll use your talents right away. Check out the Air Force ROTC program on your campus. It's good insurance.

AIR FORCE
ROTC

COMMITMENT to CARING AS AN AIR FORCE NURSE

As an Air Force nurse, you'll be committed to the welfare of service-members and their families. And enjoy worldwide employment opportunities. You can get there through Air Force ROTC. See your campus representative for details on the AFROTC scholarship program.

AIR FORCE
ROTC

WANT INSTANT RESPONSIBILITY?

Being an Air Force missile launch officer is an awesome responsibility. It's an exciting opportunity from the word "Go." Air Force ROTC can help prepare you for this field with a 2-, 3- or 4-year scholarship. Then you'll be eligible for a special graduate program. For more details, see your AFROTC counselor.

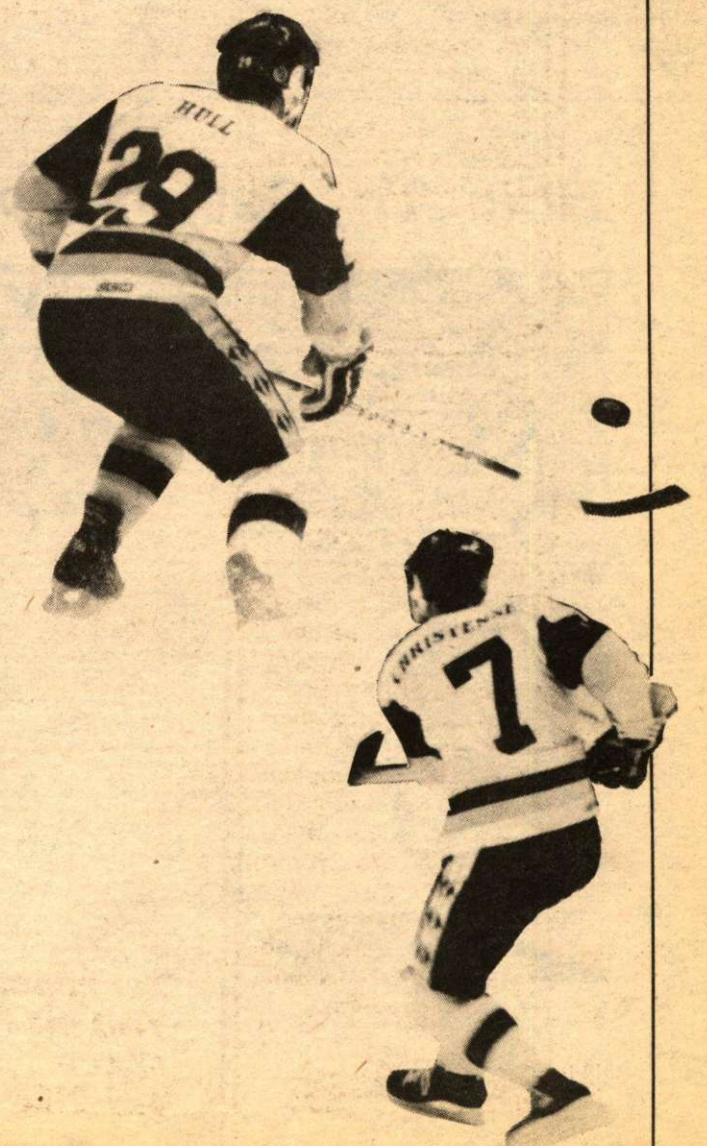
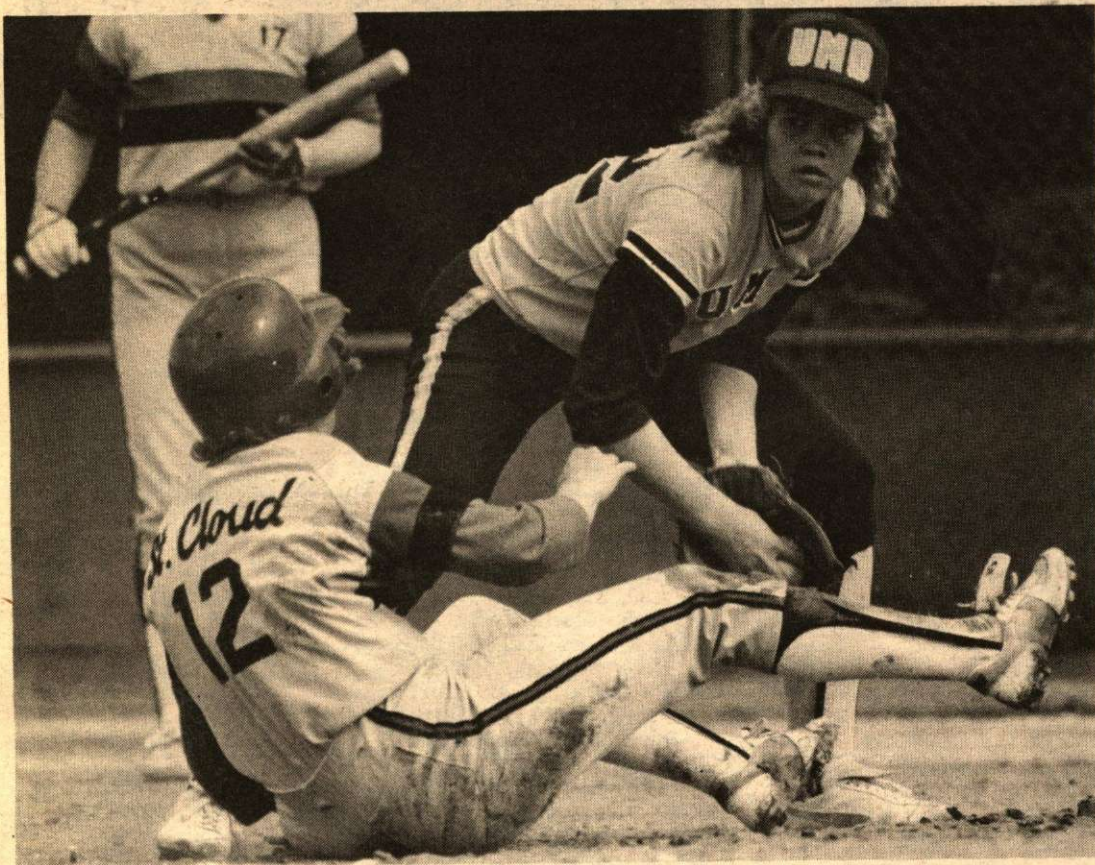
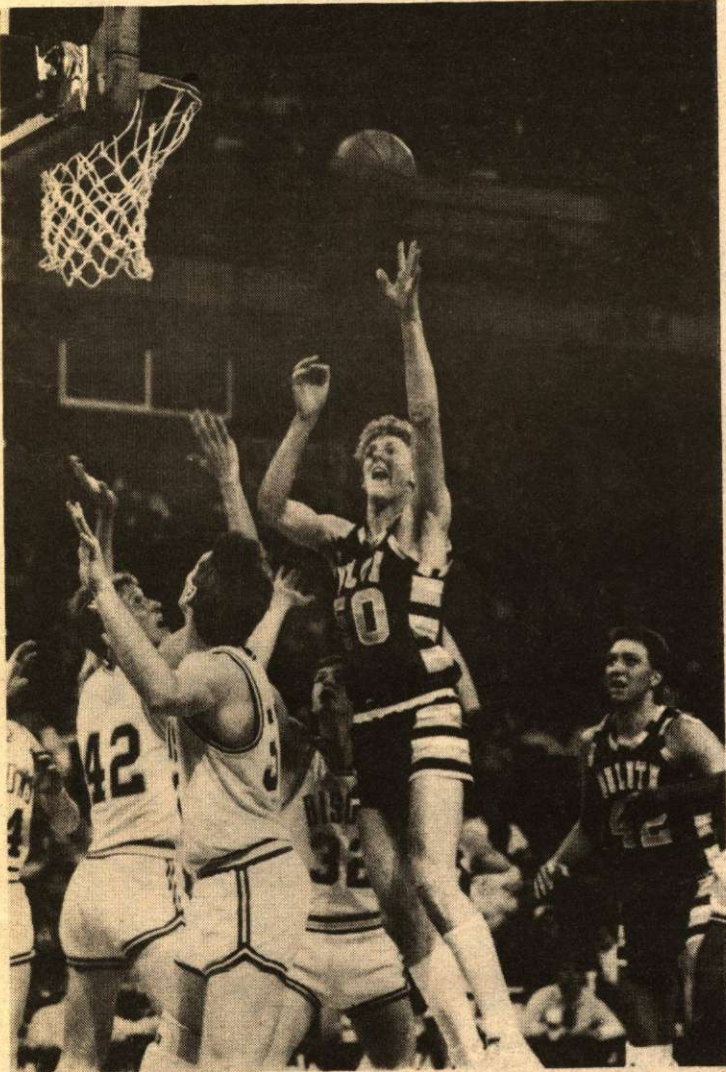
AIR FORCE
ROTC

**For information:
Visit the ROTC Bldg.
or call
726-8159**



Athletics

D



For Everything There Is A Season

A Commitment To Excellence

Being big doesn't always mean being better.

In relative terms, the University of Minnesota-Duluth offers one of the most balanced, as well as competitive, athletic programs for schools of its size in the Midwest. In 1985-86, for example, Bulldog teams captured conference titles in football, men's basketball, volleyball, men's golf, and men's tennis. The men's basketball, wrestling, and tennis contingents all advanced to NAIA national championships while individuals from the Minnesota-Duluth men's and women's track and field and men's golf teams also earned berths in the NCAA Division II national events.

Minnesota-Duluth conducts a 15-sport athletic program (nine men, six women) and competes nationally at the National Collegiate Athletic Association (NCAA) Division II level with the exception of men's and women's basketball and wrestling (National Association of Intercollegiate Athletics-NAIA) and hockey (NCAA Division I). The Bulldog men are members of the Northern Intercollegiate Conference save for the hockey team which belongs to the prestigious Western Collegiate Hockey Association (WCHA). The Minnesota-Duluth women compete in the Northern Sun Conference. The entire Bulldog athletic program is headed by Bruce McLeod, the Director of Intercollegiate Athletics.

Besides offering prospective students a chance to participate in actual varsity sports competition, the Minnesota-Duluth Department of Intercollegiate Athletics also provides opportunities for sports-related activities such as cheerleading, danceline, student managing and training, and sports information work.

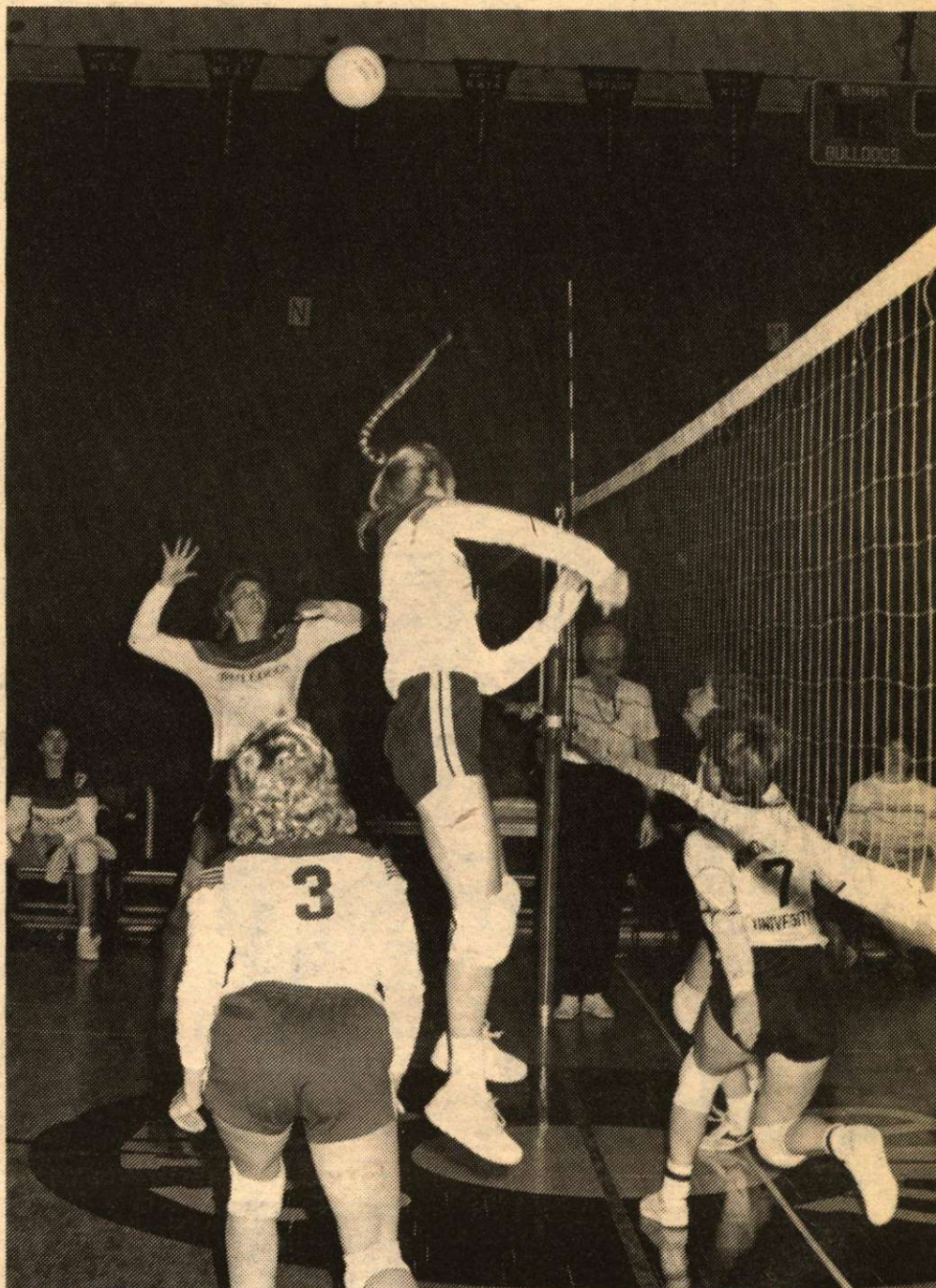


Photo / Scott Johnson

How To Get In Touch...



Photo / Greg Sauve

BULLDOG ATHLETIC DEPARTMENT STAFF

BETTY FLEISSNER, Ass't Trainer	726-8133
SHEILA FRYBERGER, Secretary	726-8168
LYN GREENWOOD, Secretary	726-8168
BILL HALLER, Men's Athletic Coordinator	726-8168
SCOTT HANNA, Ass't Football and Baseball Coach	726-7967
GARY HOLQUIST, Ass't Basketball Coach	726-8189
MARY JO JOHNSON, Secretary	726-8168
DIANA KLOSOWSKI, Rasmussen Fund Secretary	726-8598
JIM KNAPP, Ass't Hockey Coach	726-8195
GLENN KULYK, Ass't Hockey Coach	726-6119
NEIL LADSTEN, Wrestling and Ass't Football Coach	726-8534
LINDA LARSON, Women's Athletic Coordinator	726-7230
JIM MALOSKY, Football Coach	726-7121
SUE MacDONALD, Business Manager	726-8721
BRUCE McLEOD, Athletic Director	726-8168
RICK MENZ, Equipment Manager	726-7596
KATHY NELSON, Ticket Office	726-8595
BOB NYGAARD, Sport Information Director	726-8191
RICHARD OJAKANGAS, Faculty Representative	726-7923
DALE RACE, Men's Basketball Coach	726-8189
VINCE REPESH, Ass't Football Coach	726-8168
DON ROACH, Men's Tennis Coach and Head Trainer	726-8717
ELEANOR RYNDA, Cross Country and Track Coach	726-8192
MIKE SERTICH, Hockey Coach	726-8579
KAREN STROMME, Women's Basketball Coach	726-7143
MICKY TIERNEY, Volleyball Coach	726-7968

Plenty To Offer



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Men's Sports

Baseball
Basketball
Cross Country
Football
Golf
Hockey
Tennis
Track & Field
Wrestling

Women's Sports

Basketball
Cross Country
Softball
Tennis
Track & Field
Volleyball



Photo / Scott Johnson

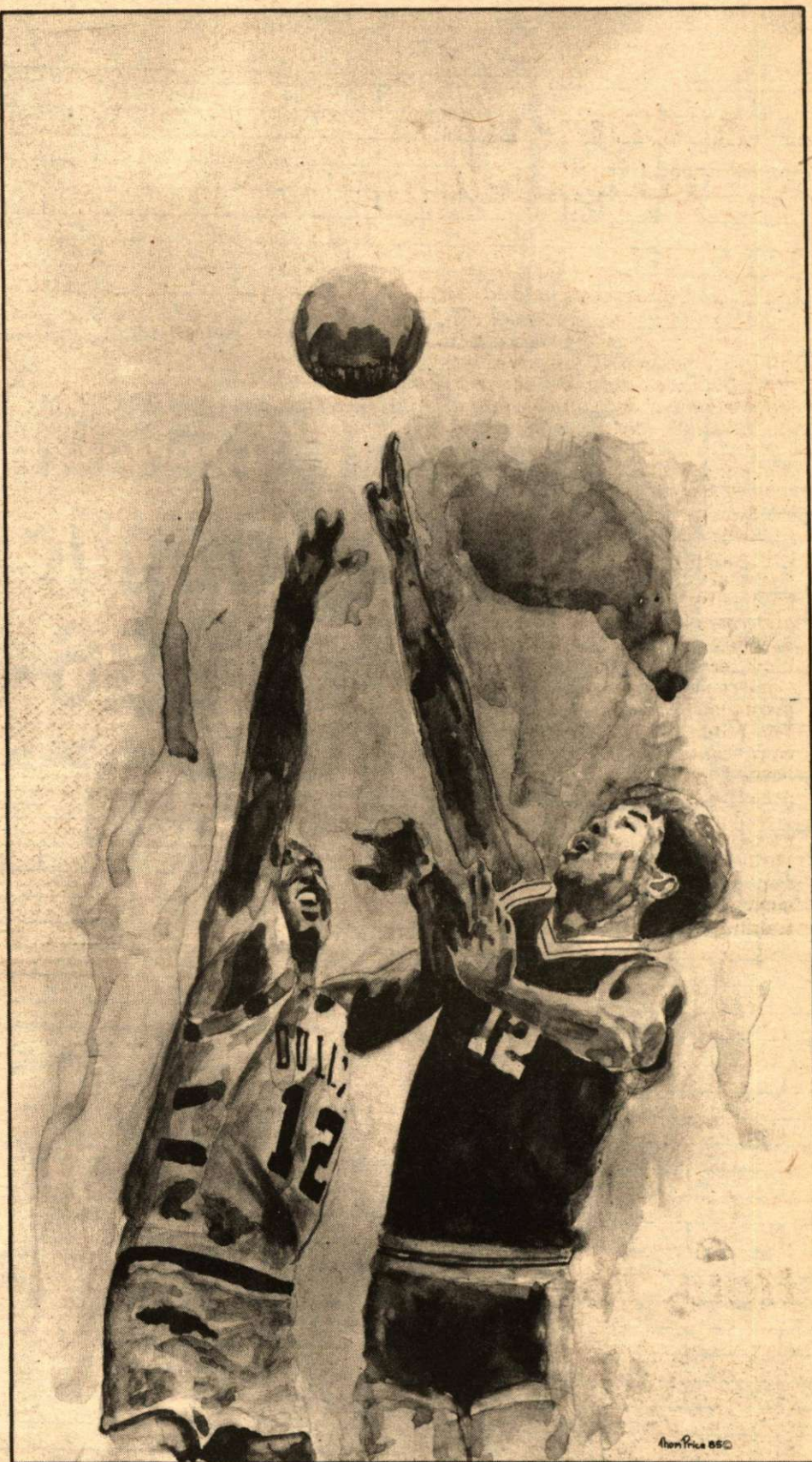


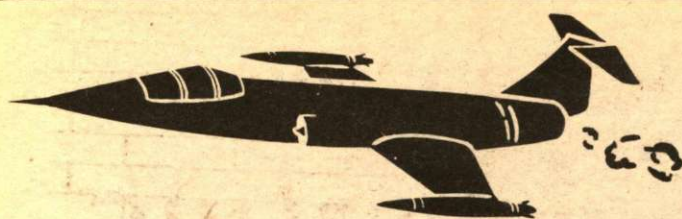
Photo / Price 85©

Worth The Price of Admission

With the steadily shrinking entertainment dollar, Minnesota-Duluth athletic events are indeed a breath of fresh air.

Admission to any Bulldog home game, with the exception of hockey, is free for all full-time students. All that is needed is presentation of a valid student activity card. The price of admission to see the hockey Bulldogs at the Duluth Arena is a mere \$2.00 for full-time students and single guest tickets are available for certain games at a cost of \$3.00. Student season hockey tickets (\$40.00 for the Bulldogs' 20-game home schedule) will go on sale at the UMD Ticket Office.

Full-time students are admitted free not only to single Minnesota-Duluth contests but also to the many tournaments various Bulldog athletic teams stage each season such as the American Family Classic for both men's and women's basketball, the UMD Halloween Invitational (one of the largest women's volleyball tournaments in the country) and the Northern Intercollegiate Conference Holiday Tournament which will be hosted by the Minnesota-Duluth men's basketball team for the second year in a row this December.



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